THE CHEMIST AND DRUGGIST

ESTABLISHED 1859.

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AS AN OFFICIAL JOURNAL

THE CHEMIST AND DRUGGIST is supplied regularly to every member of the following Societies:—PHARMACEUTICAL SOCIETY OF IRELAND, SOUTH AFRICAN PHARMACEUTICAL ASSOCIATION, OTAGO PHARMACEUTICAL ASSOCIATION, PHARMACEUTICAL SOCIETY OF QUEENSLAND, PHARMACEUTICAL SOCIETY OF SOUTH AUSTRALIA, PHARMACEUTICAL SOCIETY OF WESTERN AUSTRALIA, and TASMANIAN PHARMACEUTICAL SOCIETY.

CONTENTS: VOL. XLV. No. 20.

	PAGE		PAGE
Bankruptcies and Failures	717	Irish News	697
Chemists as Mayors	719	Legal Reports	714
Corner for Students	696	Marriages	700
Correspondence	723	New Companies and Company News	703
Deaths	700	Personalities	709
Deeds of Arrangement	718	Pharmaceutical Society of Ireland	700
Editorial Comments:—		Pharmacy Fables (IV.)	712
Chemists' Charges	710	Revision of Chemist and Druggist Register	701
The 'Graph Patent	711	Scotch News	697
German Chemico-Pharmaceutical Profits	711	The Winter Session	701
Notes	712	Trade Notes	699
English News	693	Trade Report	720
Foreign and Colonial News	693	Water-filters	718
French Pharmaceutical News	698		
Gazette	718		

POSTCARD COMPETITION.

NOVEMBER.

YEARS ago we showed by means of a postcard competition how chemists could use the mysteries of science in providing entertainment for

CHRISTMAS AND EVENING PARTIES.

We wish now to turn their attention to the trade side of these social functions. What can chemists do for them in supplying beverages, culinary or wine essences, or any other household requisites? We ask subscribers, and members of their families or staffs, to give us formulæ for any preparation such as those mentioned which can be profitably retailed during the social season. Any idea or suggestion which may be advantageously adopted to promote this class of trade will be eligible to compete. Postcards only should be used. We shall award one guinea at least for the best postcard.

A CAUTIOUS CUSTOMER.—"You are a chemist and druggist, are you?" "I am." "Been in the business a number of years?" "I have." "Understand your trade thoroughly?" "I do." "Registered?" "Yes, sir." "That is your certificate hanging over there?" "It is." "Well, give me twopennyworth of tooth-powder."

Summary.

THE hectograph patent expired this week (p. 711).

THE Chemists' Aërated and Mineral Waters Association announce a dividend of 15 per cent. (p. 703).

ETHICAL codes and their relation to bread and butter is the topic of the Pharmacy Fable this week (p. 713).

A LIVELY discussion on chemists' charges has occurred in a Nottingham daily paper. We comment on it on p. 710.

A PROSECUTION in regard to the sale of butter at Nottingham brought out some interesting points on butter-analysis (p. 715).

AN interesting case connected with negotiations for the sale of a business is reported from the Wandsworth County Court (p. 714).

THE sale of methylated finish containing an insufficient proportion of resin was the subject of a Revenue prosecution at Luton (p. 714).

WE announce another analytical competition for students, but are compelled to reserve until next week our report of the last one (p. 696).

AT the evening meeting of the Pharmaceutical Society this week Professor Green gave a lantern-lecture on the nervous system of plants (p. 704).

AT Tunstall a grocer has been fined for selling as Demerara sugar coloured beet-sugar. The analytical points and trade custom in the matter were dealt with (p. 716).

MR. RYMER YOUNG has addressed the Manchester Association on his eighteen months' experience in the Pharmaceutical Council. His discourse is very good reading (p. 707).

TINCTURES and tincture-making is the subject of a paper by Mr. H. W. Jones, read at Birmingham, who gave some hints on percolation, and advocated official standardisation (p. 705).

THE Irish Pharmaceutical Council had little to do last week, but discovered a grievance in the non-eligibility of Irish pharmaceutical chemists for naval-hospital dispensers-hips (p. 700).

THE German chemical industry, as revealed by the balance-sheets of registered companies, appears to have been prosperous in 1893, an average dividend of 13·92 per cent. having been paid (p. 712).

FIVE grocers have been fined at Perth for selling ground linseed cake for linseed meal. A sixth contended that abstraction was not adulteration, and the charge against him was withdrawn (p. 716).

TWO chemists at Lincoln have been summoned for selling milk of sulphur when precipitated sulphur was asked for. One was fined 15s.; the other, who explained that he only had milk of sulphur in stock, got off (p. 715).

A LONDON chemist, who contested the Board of Inland Revenue's views in regard to medicine-stamps, has had to pay 33l. 4s. in respect of seven informations laid against him. Another chemist who erred inadvertently gets off with a fine of 5s. (p. 715).

IN a page of personal notes are several exceptionally interesting items, amongst them the defeat of Colonel Chesebrough as a candidate for the U.S. Congress, and the election of Mr. Edward Evans, of Liverpool, to succeed Mr. Schnadhorst as Chairman of the General Committee of the National Liberal Federation (p. 709).

IN order to correct the register of chemists and druggists, the Registrar compiles every second year a list of names of persons who cannot be found at the addresses given. We publish this list on p. 701. Reference should be made to this by persons who have changed their residence, as failing response from them their names will be expunged from the register.

Conducted by Richard J. Moss, F.C.S., F.I.C.

Qualitative Analysis.

THE subject of the next exercise in qualitative analysis will be a mixture of not more than three salts. The mixture is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents.

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The Newcastle-on-Tyne and district chemists are to hold their fifth annual ball in the Old Assembly Rooms, Westgate Road, Newcastle, on Wednesday, December 19, 1894. Tickets may be obtained from Mr. James Davidson, 35 Grainger Street, Newcastle.

Irish News.

Boileau & Boyd (Limited).

As a consequence of the death of Mr. Samuel Boyd, the businesses known as Samuel Boyd, 46 Mary Street, Dublin, Boileau & Boyd, 91, 92, 93 Bride Street, Dublin, and Boyd & Goodwin, 6 Merrion Road, Dublin, have been formed into a private limited company under the style and title of Boileau & Boyd (Limited). The company was duly incorporated on October 18. There will be no change in the general conduct of the businesses, which will be carried on at the several addresses as before.

Analysts at variance.

At the Tulla Court on October 17, Colonel O'Callaghan, of Bodyke, claimed 315*l.* for twenty-three bullocks killed and injured, which he alleged had been maliciously poisoned on some evicted farms of his. Messrs. Winter and Cole, veterinary surgeons, of Limerick, testified that from a post mortem examination they had come to the conclusion that the animals died from a mineral irritant poison, and an analysis by Professor Tichborne was prodnced on the part of the colonel showing that arsenic in small qnantities and in a soluble form had been found in some of the stomachs. Mr. R. J. Moss, of the Royal Dublin Society, had been engaged on behalf of the cess-payers to analyse certain other stomachs, and he came to the conclusion that there was no mineral poison present, but that the animals had died from eating wenlock, which was proved to grow on the farm. The Court held that the claims had not been sufficiently established and rejected all.

Scotch News.

Charge of Attempted Housebreaking.

William Halliday and Thomas McKinnon were committed for trial at the Edinburgh City Police Court on October 17, on a charge of attempted house-breaking. It is alleged that they had attempted to break into a druggist's shop at 3 Melville Terrace, with intent to steal, by forcing an iron stanchion off the back window and raising the lower sash. They were, it is stated, observed by several people from their windows, and were arrested from description.

Municipal Honours.

Mr. D H. Ferrier, chemist and druggist, has been appointed a Bailie of Dundee for the second time.

Mr. William Burns, chemist and druggist, Ayr, has been returned to the Town Council, at the top of the poll, for the fourth ward, defeating Mr. Isaac Terry. "A change for the better," says a local paper.

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As a consequence of the death of Mr. Samuel Boyd, the businesses known as Samuel Boyd, 46 Mary Street, Dublin, Boileau & Boyd, 91, 92, 93 Bride Street, Dublin, and Boyd & Goodwin, 6 Merrion Road, Dublin, have been formed into a private limited company under the style and title of Boileau & Boyd (Limited). The company was duly incorporated on October 18. There will be no change in the general conduct of the businesses, which will be carried on at the several addresses as before.

Analysts at variance.

At the Tulla Court on October 17, Colonel O'Callaghan, of Bodyke, claimed 315*l.* for twenty-three bullocks killed and injured, which he alleged had been maliciously poisoned on some evicted farms of his. Messrs. Winter and Cole, veterinary surgeons, of Limerick, testified that from a post-mortem examination they had come to the conclusion that the animals died from a mineral irritant poison, and an analysis by Professor Tichborne was produced on the part of the colonel showing that arsenic in small quantities and in a soluble form had been found in some of the stomachs. Mr. R. J. Moss, of the Royal Dublin Society, had been engaged on behalf of the cess-payers to analyse certain other stomachs, and he came to the conclusion that there was no mineral poison present, but that the animals had died from eating wenlock, which was proved to grow on the farm. The Court held that the claims had not been sufficiently established and rejected all.

Scotch News.

Charge of Attempted Housebreaking.

William Halliday and Thomas McKinnon were committed for trial at the Edinburgh City Police Court on October 17, on a charge of attempted house-breaking. It is alleged that they had attempted to break into a druggist's shop at 3 Melville Terrace, with intent to steal, by forcing an iron stanchion off the back window and raising the lower sash. They were, it is stated, observed by several people from their windows, and were arrested from description.

Municipal Honours.

Mr. D. H. Ferrier, chemist and druggist, has been appointed a Bailie of Dundee for the second time.

Mr. William Burns, chemist and druggist, Ayr, has been returned to the Town Council, at the top of the poll, for the fourth ward, defeating Mr. Isaac Terry. "A change for the better," says a local paper.

"Ringing the Changes" on a Chemist.

Two months ago, William Adams managed to "ring the changes" in the drug-shop of Dr. Meighan, Gallowgate, Glasgow, Mr. James Mitchell, the assistant, being the victim. He tried it again the same day, but this time he got the police instead of a florin, and now the Sheriff has given him twelve months' imprisonment.

Bad Infants' Food.

On Sunday a case of irritant poisoning was reported to the Glasgow police, the sufferers being Daniel and Lawrence Jackson, aged 9 and 4, sons of a carter residing in Govan Street. The mother bought a packet of infants' food on Saturday night, and prepared some for her youngest child, who, however, did not take it. The food was left in the oven all night, and on Sunday morning it had soured and fermented. Rather than waste the food, the mother gave it to the two older boys, and immediately afterwards they exhibited symptoms of irritant poisoning—severe pains, purging, and vomiting. A medical man was called, and administered successful remedies.

French Pharmaceutical News.

(From our Paris Correspondent.)

Dentists' Diplomas.—The French Ministry of Public Instruction has just issued a notice to the effect that a series of three examinations for the diploma of surgeon-dentist will be held next month at the Paris Faculty of Medicine. The exact date will be announced shortly. The examinations are for dentists already in practice.

Drugged Cigarettes.—A man named Faure was tried at the Palais de Justice here this week on the charge of having drugged a Havre merchant, M. Bellinski, on September 11, in a train on the Western Railway. He was in a compartment in which were several other persons, and a game of cards was proposed. M. Bellinski declined to take part in this, but accepted an apparently friendly offer of a cigarette. He fell asleep a few minutes after smoking this, and when roused by the porters at Havre station found his pockets had been picked. He had the end of the cigarette analysed, and it was found to contain a narcotic. Faure was arrested as the principal offender at the Gare St. Lazare. Judgment has not yet been pronounced.

A Pharmacist's Tribulations.—M. MacAuliffe, pharmacist, Boulevard de Port Royal, Paris, has been sorely tried by tribulations, which, after two appearances at the Police Court as plaintiff and once as defendant, he will, to a great extent, be forced to bear with chastened resignation. The facts of the case are briefly as follows. He has had a long quarrel with his neighbour, Mme. Ponteau, who troubled him so much that at last he was compelled to seek the protection of the Police Court, and his tormentor had to pay a fine of a few francs. Shortly afterwards, however, the pharmacist was summoned on a charge of assaulting an old lady named Mme. Royer, another of his neighbours. He was stated to have roughly hustled her in the staircase of the house without provocation. M MacAuliffe's defence was an alibi. He said he had been at a family gathering at the Town Hall of the 13th Arrondissement when the supposed assault took place; but his witnesses did not prove sufficiently convincing, and he was condemned to pay a fine of 25f. and 100f. damages. After making inquiries he thought he could prove himself to have been the victim of a cabal, organised by Mme. Ponteau, with the assistance of Mme. Royer. In consequence he brought a charge of perjury against these two ladies, and the case was tried on November 9. Forty witnesses were heard, but their evidence was so contradictory that the ladies were acquitted after an eloquent defence by counsel, and the unfortunate pharmacist had to pay all the costs.

Pharmacy Day by Day.—M. Bachimont, the new pharmacien deputy, made his initial speech at the Chamber of Deputies last Monday by a proposal to reduce the French secret-service fund from 1,600,000f. to one-half of that sum. Another member of the profession who, by his position and wealth, seems destined to play a somewhat important part in the legislative assemblies of his country is M. F. Rigaud, of the firm of Rigaud & Chapoteaut, manufacturers of pharmaceutical products. This gentleman is an officer of the Legion of Honour, and was recently elected a "Conseiller Général" for the district of Neuilly.—As a proof of the high attainments that are looked for nowadays in some of the best French pharmacies it may be mentioned that the proprietor of one of the leading Paris retail "officines," is negotiating with a young professor of the Paris School of Pharmacy, who is also a Doctor of Medicine, and at present attached to one of the hospitals here, with a view to securing his services as manager. The salary spoken of is between 300*l.* and 400*l.* per annum. It is possible that this is intended as one of the most efficient means of combating the encroachments of the large new "cutting" pharmacies. The latter establishments continue to display enterprise. One of them is advertising just now in the daily newspapers quoting reduced prices for some forty drugs and other articles. "Lowest prices in France," "Drugs at wholesale prices," "Discounts according to amount of order," "Deliveries free by post, or carriage paid for country orders over 1*l.*," are among the attractions advertised.

Foreign and Colonial News.

Vaseline as a Trade-mark.—The Chesebrough Manufacturing Company are still successfully prosecuting druggists in New York for infringing their trade-mark and patent rights in vaseline.

A New Chemical Venture.—A new cyanide-of-potassium factory is being built in Hamburg by a company possessing a capital of 100,000*l.* The recent extension of gold-mining has greatly increased the commercial importance of potassium cyanide.

Manitoba Pharmacy.—The Pharmaceutical Association of Manitoba have built at the Manitoba College rooms for the accommodation of their own students, and equipped the rooms with chemical and pharmacy appliances, and a competent staff of lecturers.

"Carlsbad" as a Trade-mark.—The city of Carlsbad, through their representatives, the Eisner & Mendelson Company, of New York, has brought an action in the United States Court against Kutnow Brothers, of New York, for selling an artificial and spurious imitation of the imported Carlsbad salt as "Improved Carlsbad Powder."

An International Exhibition in Portugal.—The fourth centenary of the discovery by Vasco da Gama of the sea-route to India by way of the Cape is to be officially celebrated with much circumstance in Portugal in July, 1897. An international maritime, colonial, and fisheries exhibition, and a national exhibition of art and industry are to form part of the programme.

An American New Company.—Amongst the companies recently incorporated in the United States is the Michigan Alkali Company. The *Era* states that the capital of the company is $1,000,000, all paid up. The company is to deal in salt, limestone, alkalies, all kinds of minerals, &c There are 100,000 shares, of which J. B. Ford, jun., holds all except four. The company's headquarters are at Detroit.

Pharmacy Tragedy in Switzerland.—Legal proceedings having been instituted against Apotheker Gallati, of Glarus, Switzerland, for embezzlement of about 24*l.* worth of money, the accused fled to Zürich with his wife and two children. In Zürich Gallati was discovered and arrested. After her husband's removal to prison Madame Gallati killed the children and committed suicide by cutting the jugular vein with a knife. In a letter she explained that she wished to save her children from want.

Free Alcohol.—There is no more chance for free alcohol in the United States for this year at least. Mr. J. G. Carlisle, Secretary to the Treasury, writes that he has "given much attention to the subject, and has fully considered all the arguments and suggestions submitted by parties interested in the execution of the section of the statutes referred to, and has arrived at the conclusion that, until further action is taken by Congress, it is not possible to establish and enforce such regulations as are absolutely necessary for an

effective and beneficial execution of the law." So retail druggists have lost their chance, and wholesalers are wailing.

Counter-prescribing.—A Chicago drug-clerk has recently been fined $100 for counter-prescribing. The customer asked something for a certain complaint, and he got it. The Board of Health were informed of the matter, and they prosecuted the clerk, who has now appealed against the decision. It seems that the prosecution was taken under a section of the Medical Practice Act, passed in 1887, which is to the effect that "any person shall be regarded as practising medicine within the meaning of the Act who shall treat, operate on, or prescribe for any physical ailment of another." The Board of Pharmacy are trying to get this section repealed or made inoperative.

Vin Mariani in Ohio.—In our issue of November 3 we reported the prosecution of several druggists in Ohio for selling Mariani wine, on the ground that that preparation was not a pure drug. The cases, as might have been expected, have been virtually abandoned by the prosecution, inasmuch as the U.S. Dispensatory, which is a legal authority, states that commercial assays show a yield of total alkaloids in South American coca-leaves of between ·02 and 1·02 per cent. As the prosecution relied upon the charge that Mariani wine does not contain the full coca-value of the leaf, a charge which is refuted by the figures quoted, the vin-mariani cases will have to be dismissed.

The American Cotton-oil Company.—The fifth annual meeting of this company was held in New York on November 1, when a report was submitted to the shareholders showing that the Trust controls no less than 120 manufacturing properties, located in sixteen States, and embracing 72 crude oil mills, 15 refineries, 4 lard and cottolene plants, 9 soap-factories, 15 cotton-ginneries, 3 cotton-compressors, and 2 fertilizer-mixing plants. The new property constructed or acquired during the year consists of the ocean tank steamship *Aco*; real estate, refinery, storage-tanks, warehouse and dock property in Rotterdam, Holland; 10 tank-cars for service of the Holland-American Cotton Oil Company; cotton-ginnery at Port Gibson, Mississippi, and 75 seed-houses, with storage capacity of 12,048 tons. The transportation equipment consists of the ocean tank steamship *Aco*, of 4,200 tons, and 2,300 horse-power; 355 oil-tank cars, 23 box cars, and 1 barrel car. The sales for the year have amounted to $23,879,400, leaving a net profit of $696,300. It must be taken into account, in comparing these figures, that the business of the fiscal year commencing September 1, 1893, began in a period of depression, restriction, and anxiety in commercial and manufacturing circles, and that the products of the organisation were declining in value, while the price of the raw material was advancing rapidly. Notwithstanding these adverse conditions the sales have increased 23 per cent. over the previous year.

The "Crown" Sheep-dip Syndicate (Limited).—A syndicate is being formed in South Africa under this name for the purpose of acquiring the monopoly of the importation and trade in South Africa of the "Crown" Sheep-dip, and to supply it to the Government depôts, which, according to the new Scab Act, are to be established in all the sheep-farming districts of the colony. The capital of the company is 2,000*l.*, in 20*s.* shares, and is to be utilised for working expenses only, the promoters of the company having made arrangements with the manufacturers of the "Crown" dip which will enable them to secure supplies on commission. In 1893 there were in Cape Colony 5,523,404 goats and 16,945,485 sheep, and as, under the new Scab Act, all these will require to be dipped it is expected that an immense impetus will be given to the trade in sheep-dip. The terms on which the syndicate will acquire the sole right to import and deal in the "Crown" dip for South Africa are 150*l.* in cash, to cover all previous outlays for introducing the dip, and preliminary expenses, 500 ordinary shares, and 250 deferred shares, which will receive no dividend until 10 per cent. per annum has been earned on the total capital of the syndicate, after which they will rank as ordinary shares, under an obligation that the ordinary shares will not be disposed of for the period of one year, and the deferred shares for two years, from date of allotment. The provisional directors of the company are—G. Sichel, J. G. Leeb, Dr. Smuts, M.L.A., I. Hanau, and Alex. K. Frame, the last-named being managing director.

Trade Notes.

Jeyes' Sanitary Fluids Company report that gold medals have been awarded to them at the Leicester and Stockport Trades and Industrial Exhibitions.

Messrs. Oppenheimer, Son & Co. (Limited) have made considerable alterations in the terms of sale and discount on their goods. The new conditions take effect from November 15. Full particulars are given in the firm's advertisement in this issue.

Messrs. Domeier & Co., of 13 St Mary-at-Hill, E.C., have now taken over the agency for the United Kingdom of Messrs. J. Medinger & Soehne, Vienna, for the sale of their tartaric acid. At the same time Messrs. Brummerstadt & Lüders, of 60 Mark Lane, E.C., state that they have been appointed agents for Messrs. C. H. Boehringer Sohn, tartaric-acid manufacturer, &c., Niederingelheim.

Mr. Beecham has just issued the seventh volume of his music portfolio. Each part contains thirty popular songs or pianoforte pieces with full accompaniments, and is sold at 2*d.* in paper covers, or 3*d.* post free, or 6*d.* post free in limp cloth. The seven parts are now supplied in one volume bound in limp cloth, 2*s* 6*d.*, or in limp leather, 3*s.* post free. For a collection of 210 songs and pieces this is probably the cheapest music publication ever issued.

Messrs. W. J. Bush & Co., of Artillery Lane, E.C., are now supplying a synthetic geranium oil under the name of ol. pelargonii ang. The oil is of a bright yellow colour and characteristic odour, strongly reminding of French rose-geranium. It is being offered in ordinary wholesale quantities at 12*s.* per lb., and therefore compares favourably so far as price is concerned, with the best natural geranium oils, which it is said to surpass in economy in use, while it certainly is quite equal to them in aroma. Ol. pelargonii ang. has been prepared by Messrs. Bush & Co as a laboratory product for some years, but they have only recently been enabled, by improvements in their process of manufacture and the reduced cost of the raw material, to place the article upon the market in commercial quantities.

Antitoxine.—Messrs. Barclay & Son (Limited) have undertaken the sole agency of a new remedy of the antipyrin class, named antitoxine, but differing from antipyrin, acetanilide and the like, in possessing no depressing action upon the heart; in fact antitoxine is a heart tonic and physiological and clinical trial have proved its specific influence as an anti-neuralgic and antipyretic. We understand that the remedy has been invented and is manufactured in this country. It is of synthetic origin, and is given in doses of 5 to 10 grains. While Messrs. Barclay & Son have undertaken the agency, they do not propose to retain the wholesale distribution in their own hands, but they are to ensure that the wholesale houses who handle it will not cut the price, and they anticipate that antitoxine will be retailed at ordinary dispensing profits. To make the remedy known a circular regarding it is to be sent to every doctor in the kingdom, and any chemist or doctor can get a sample on application. It is somewhat unfortunate that the name of the remedy so closely resembles that applied to diphtheria vaccine (to which it bears no other relation whatever), but it may be noticed that the new antipyretic has a final "e," while diphtheria antitoxin has none. If not too late we would suggest "antoxæmin" as a less confusing name than antitoxine for the new antipyretic.

German Physicians are complaining that their methods of treatment are gradually becoming Americanised. We are heartily glad to hear it.

We may as well at once admit that we are a nation of snobs. No other nation in the world, I fancy, takes so deep an interest in its royalties and rulers. Whatever they do sets the fashion, and because so many like to follow where they lead, I may inform my readers that the Prince of Wales's favourite table-water is Rosbach. When he was in Homburg he drank nothing else; and when he went to an hotel in Baden where it was not to be had, his equerry was instructed to telegraph for a case of it at once. Now, of course, every one is drinking Rosbach table-water.—*World.*

Pharmaceutical Society of Ireland.

THE monthly meeting of the Council was held on November 7. Present:—Mr. William Hayes (President) in the chair, Mr. Beggs (Vice-President), Messrs. Grindley, Downes, C. Evans, Hodgson, E. P. Murray, J.P. (Clones), and Professor Tichborne.

Mr. Hodgson, not having been present at the last meeting, now thanked the Council for having appointed him Treasurer of the Society for the nineteenth consecutive year.

Regulations Approved.

A copy was received of an Order in Council approving of the regulations made by the Council of the Society last June.

A Police Report.

A letter, dated October 8, was received from Mr. Singleton, Commissioner of Police in Belfast, in reference to the case of a man named Patrick Flynn, upon whom an inquest was recently held in that city. The letter stated that the deceased was in the employment of James A. Campbell & Co., chemists and druggists of that city; that on September 22, a son of the deceased named John Flynn came to Messrs. Campbell's shop and got from an assistant named James Mahon a bottle of medicine; that John Flynn could not say whether it had been paid for or not, but believed that it would be; that the bottle had on it the name of the house and the words "a tablespoonful every four hours in a little water"; that Mahon admitted that he did wrong, but said that the bottle was made up to relieve the old man's cough; that the deceased took some of the medicine, and that there was no evidence that it contained poison, but that Messrs. Campbell were qualified to sell poisons.

The President said that this case had been before the committee. Nothing wrong had been done. The man was a porter in Messrs. Campbell's employment and had a bad cough, and this cough-mixture was made up to relieve him. He got bronchitis and died in a few days; and his death was not in any way the result of what he took from the bottle. There was no proof that the mixture contained any poison.

Mr. Downes: No question could have been raised about the matter if Mr. Campbell had been a tinsmith, but because he happened to be a druggist the whole case is altered.

No Irish Need Apply.

The Registrar (Mr. Ferrall) stated that he had received a letter from the editor of the *British and Colonial Druggist*, inquiring whether licentiates of the Irish Pharmaceutical Society were eligible for appointment in the dispensary department of the Royal Navy. He (Mr. Ferrall) wrote to the Medical Department of the Navy on the subject, and received a reply from the Director-General stating that only candidates holding the qualification of the Pharmaceutical Society of Great Britain were eligible for the appointments in question, and that it was not contemplated to make any change.

Mr. Downes: I think this is a grievance to Ireland which we should try to remedy. I think our licence ought to be recognised in her Majesty's Navy.

The President, Mr. Grindley, and other members concurred.

Mr. Downes moved that a copy of the correspondence be sent to the city and county Members of Parliament.

Mr. Grindley seconded the motion.

The Vice-President: If you put the matter into Mr. Field's hands, he will thresh it out.

The President remarked that the Hon. Horace Plunkett was very painstaking, and if he took up the matter would carry it through.

The motion was unanimously agreed to.

Candidates' Inquiries.

A letter from Mr. H. R. Warden asked the Council if a certificate from the Queen's College, Belfast, that he had worked in the chemical-laboratory of that college, under the superintendence of the professor, from April 23 to July 17, 1894, would be accepted.

The Registrar said he had informed Mr. Warden that his term was not a compliance with the regulation, which required three months' service. It was six days short of three months; but reckoning by the number of hours—viz., 183—it would be sufficient.

It was ordered that Mr. Warden be informed that the Council were not at liberty to go outside the regulation approved of by the Privy Council.

A letter from a candidate who had been rejected at the October examination for the licence asked whether he would be exempt at the next examination from the newly-prescribed course in botany and materia medica. He also asked whether the Council would accept a certificate in botany and materia medica from the Queen's College, Cork.

The President: The reply to the last question is "No," unless the College applies for recognition of certificate in these subjects.

Mr. Grindley: The Queen's College, Cork, have never applied to us to accept their certificates.

On the motion of the Vice-President, seconded by Professor Tichborne, it was ordered that candidates who presented their certificates prior to January, 1895, should be allowed to be re-examined without being liable in the course of botany and materia medica.

The Examiners.

On the motion of Mr. Downes, seconded by Mr. Grindley, the following gentlemen were re-elected examiners:—Preliminary examination, Dr. Cosgrave; Examination in materia medica and botany, Dr. R. J. Montgomery; in practical pharmacy, Mr. T. W. Robinson; Registered Druggists' examination in Dublin, Surgeon John Evans; for same examination in Belfast, Dr. Whitla; and for same examination in Cork, Dr. Atkins.

New Members.

On the motion of Professor Tichborne, seconded by Surgeon Merrin, Mr. Isaac H. Henry, of Cookstown, and Mr. Weston Roberts, of Enniscorthy, were elected members of the Society.

The Council then adjourned.

Marriages.

Lyle—McQuarrie.—At Rothesay, on November 6, by the Rev. Mr. Forgan, Mr. William Lyle, chemist, to Miss Jenny McQuarrie.

Plant—Smith.—On October 31, at St. James'-the-Great, Keyham, by the Rev. C. E. Green, Ernest S. Plant, R.N., second son of Mr. W. Plant, Stoke, to Constantie, only daughter of Mr. A. J. Smith, chemist, Morice Town, Devonport.

Deaths.

Allen.—At 5 Addison Road, Plymouth, on November 14, after a short illness, Francis Joseph Allen, late of the Apothecaries' Hall, London, son of Mr. J. Allen, chemist, Plymouth. Aged 27.

Billequin.—The death is announced at Paris, where he was staying on a holiday, of M. Anatole Billequin, who occupied the position of professor of chemistry for a period of more than twenty-five years at the Imperial College of Pekin. As a chemist of more than ordinary distinction, M. Billequin might have risen to a high position in France, but he preferred to undertake the difficult initiation of teaching chemistry in China. He had produced a good deal of literature on the subject in the Chinese language, including a nomenclature of chemical substances, &c. He was also the author of a Franco-Chinese dictionary.

Burton.—On November 5, Ralph Burton, chemist and druggist, Manchester. Aged 61.

Rhodes.—On October 31, Samuel Rhodes, chemist and druggist, Penrith.

Stiles.—On November 10, at 2 French Gate, Doncaster, Alice Dorothy, the dearly-loved and only daughter of Matthew Henry Stiles, pharmaceutical chemist. Aged 11 years.

PHARMACY ACT, 1868.

RECTIFICATION OF THE REGISTERS OF PHARMACEUTICAL CHEMISTS AND CHEMISTS AND DRUGGISTS.

WE are requested by the Registrar to publish the following list of persons whose names will be erased from the Registers unless they communicate with him on or before December 30 next:—

Those marked (*) are Pharmaceutical Chemists.

Abington, Leonard Yates .... London Rd., Newcastle-under-Lyme
Ackerman, Henry ..... 480 Commercial Rd., Landport
Addison, Robert ..... 2 Oxford Place, Castle Rd., Scarborough
Agger, Joseph Edward ..... 4 Eldon Street, Barnsley
Akhurst, William Edward .... 33 High St., Peckham, London, S.E.
Alexander, Adam Rankine .... 52 Main St., Newton, Ayr, N.B.
Alldridge, William..... 39 Summer Lane, Birmingham
Alldridge, Wm. Edward ..... 39 Summer Lane, Birmingham
Allen, George ..... Pathhead, Dysart, Fifeshire
Allport, Henry Phillips..... 6 Snow Hill, Birmingham
Allport, Samuel ..... 6 Snow Hill, Birmingham
Amory, John ..... 10 Nevill Street, Southport
Amphlett, Edmund ..... 8 Malcheapen Street, Worcester
Andrews, George James ..... Bendon Villa, Bendon Valley, Wandsworth
Andrews, John William ..... 68 Powis St., Woolwich, London, S.E.
Appleyard, Francis Henry .... 76 Lambeth Road, London, S.E.
Aston, James Jevons..... 9 Bull Ring, Birmingham
Bagshaw, Charles ..... 9 Halifax Road, Rochdale
Ball, Edwin ..... Wallgate, Wigan
Banks, Edward Cunnell ..... 7 Fairbridge St., Middlesbrough-on-Tees
Barber, Daniel Stone..... 126 Alderney St., Pimlico, London, S.W.
Baroham, Henry..... High Rd., Stamford Hill, London, N.
Barker, Charles Dexter..... 76 Turnmill St., London, E.C.
Barron, Alexander..... 8 Neville St., Southport
Bates, William..... 26 St. Andrew's Square, Hastings
Bell, George ..... Townhead, Lockerbie, N.B.
Bell, Henry ..... 51 High St., Gosforth, Newcastle on-Tyne
Bell, William ..... 12 Geneva Rd., Seacombe, Cheshire
Bellerby, Michael ..... 25 Shield St., Newcastle-on-Tyne
Bence, Frederick Herbert..... 14 The Beacon, Exmouth
Bishop, Thomas ..... Boness, Linlithgowshire
Black, Charles Jeffrey ..... 4 Braid Place, Newington, Edinburgh
Bladon, William George ..... Blackmoor House, Malvern Wells
Bolton, Edgar Benjamin ..... 8 Upper High St., Winchester
Bond, Peter Gillard ..... 18 Tavistock St., Bedford Sq., W.C.
Bowen, James ..... 44 Thorne Rd., Clapham, London, S.W.
Bowker, Samuel ..... 332 Deansgate, Manchester
Bowker, Samuel John ..... 42 Gt. Ancoats St., Manchester
Bowron, John ..... Brunswick Sq., Penrith
Bradley, Edward..... 13 St. Ignatius Sq., Preston
Bradley, John ..... 8 Norwood St., Spring Bank, Hull
Breese, Thomas ..... Cathedral Close, Norwich
Brend, Kenneth Benjamin .... 41 St. Helen's Rd., Swansea
Brett, Frederick John ..... King St., Leicester
Brice, Ernest ..... 20 Newarke St., Leicester
Bromfield, John Pidgeon ..... Honiton, Devon
Brown, Angus Sinclair ..... 67 Nelson St., Great Grimsby
Budgett, Arthur Edward Sydney ..... 6 Wellington St., Strand, London, W.C.
Budgett, Charles Stevens..... 2 Greyhound Place, Streatham, S.W.
Bullock, Robert ..... Buckhurst Hill, Essex
Burdett, Edgar ..... 130 Petre St., Sheffield
Burge, Samuel..... 79 Fore St., Exeter
Burrell, John Benjamin ..... 77 High St., Croydon
Buscall, Henry James ..... 125 High St., Burton-on-Trent
Butterfield, Richard Brigham.. 16 East Parade, Heworth Rd., York
Butterfield, Thomas Alexander Carrodus ..... 53 High St., Sutton, Surrey
Caldwell, John..... 4 Elinwood Avenue, Belfast
Carter, Frederick Paul ..... Victoria Drug Hall, Montreal, Canada
*Chabôt, Frank ..... 70 Prescott Rd., Fairfield, Liverpool
Chappellow, Thomas Henry.... Seofton Cottage, near Worksop
Clark, Alexander Gibson ..... 23 Melville Terrace, Edinburgh
Clark, Shadrach ..... 33 Bridge St., Warrington
*Clarke, Arthur Henry..... Wantage
Cobden, Alfred George ..... The Infirmary, East Dulwich Grove, S.E.
Coke, Richard Sweet ..... 114 Fore St., Devonport
Cole, William ..... 238 Manchester Rd., Bradford, Yorks
Coley, William Henry ..... 71 Beech Avenue, Sherwood Rise, Notts
Collier, William, jun. ..... 79 South St., Sheffield
Collins, Richard Pugh ..... 86 Well St., South Hackney, London, N.E.
Colman, William ..... 45 Percival St., C.-on-M., Manchester
Cook, Robert ..... 3 Cowan St., Hillhead, Glasgow
Cooke, Charles Samuel ..... Longfleet, Poole, Dorset
Cookson, Joseph ..... 115 Bridge St., Bradford, Yorks
Cooper, John Henry ..... 213 Marylebone Rd., London, N.W.
Cooper, John Thornhill..... 62 Denmark Rd., Greenheys, Manchester
Coppock, Henry Jones ..... East St., Bridport, Dorset
Corder, Ebenezer Porter ..... 2 East Terrace, West Ham Park, E.
Cotter, Cornelius ..... 52 Culvert Rd., Battersea Park Rd., S.W.
Cox, Edmund George..... 244 Kennington Rd., London, S.E.
Cragg, Thomas ..... 2 Victoria Villas, Chestnut Rd., Tottenham
Crocker, Thomas Bazley ..... 63 Hill Park Crescent, Plymouth
Crooke, Charles Gibbins ..... New Meeting St., Birmingham
Crossland, George ..... 111 Brierly St., Stalybridge
Cubitt, Charles ..... Adelaide Sq., Bedford
Cuples, Thomas ..... Stanstead Abbots, Herts
Cuthbertson, James ..... Darvel, Ayrshire
Dauncey, George..... 80 Wigmore St., London, W.
*David, John ..... Swansea
Davies, Ellis Thomas..... Caerwys, Flints
Davies, John Twister..... Caerwys, Flints
Davies, Thomas ..... 47 Albert Edward Road, Liverpool
Davies, Thomas William ..... 39 Shenley Rd., Camberwell, London, S.E.
Davies, William ..... 54 Broad St., Hereford
Davis, Ifor ..... Castle Rd., Roath, Cardiff
Dawson, John William ..... 94 High St., Lincoln
Day, Charles Estcourt ..... 652 Old Kent Rd., London, S.E.
Denton, Charles Hughes ..... 1 Booth's Yard, St. James's Rd., Halifax
Devereux, Arthur James ..... Beaconsfield, Bucks
Dixon, Franklin ..... Fernclifte, Mumbles
Dodgson, William ..... 5 Lower St., Stockton-on-Tees
*Dowdeswell, Jonathan ..... 1 Queen's Rd., South Wimbledon, Surrey
Down, Elgar ..... 55 Harleyford Rd., London, S.E.
Draper, Arthur Longfellow .. 10 Lorne St., Leith Walk, Edinburgh
Draper, Henry Foulger ..... High St., Chippenham, Wilts
Dring, William ..... St. Neots, Hunts
Drummond, George ..... Edinburgh
Eedes, John Westmacott ..... 80 Camberwell Rd., London, S.E.
Elam, Benjamin ..... 196 Oxford St., London, W.
Elliott, George Henry ..... 99 North Rd., Plymouth
Ellis, William ..... Adderbury, Oxon
Ellis, William ..... 39 Exchange St., Sheffield
Evans, Arthur Edwin Sharp .. 187 Tufnell Pk. Rd., London, N.
Evans, David ..... 79 Abbey Rd., St. John's Wood, N.W.
Fallowfield, Jonathan ..... 36 Lower Marsh, Lambeth, London, S.E.
Fenny, John..... Stockton-on-Tees
Fenton, William..... 10 Fulham Rd., London, S.W.
*Ferguson, William Kennedy.. 7 Townsend Rd., Lansdowne Rd., Tottenham
Fieldsend, John Francis ..... 8 Southgate Place, New Southgate
Fitton, Robert..... 30 New St., Huddersfield
Flewitt, Charles Thomas Motteram ..... 92 High St., Birmingham
Flint, Richard ..... 213 Marylebone Rd., London, N.W.
Forrest, William..... 10 Market Place, Ulverston, Lancs.
Frater, Mark W..... Eastney, Hants
Gardener, Frederick William .. 213 Marylebone Rd., London, N.W.
Garnett, Thomas..... 19 Dynevor Rd., Stoke Newington, N.
Gates, Colvin ..... 6 Windsor Street, Glasgow
Gelston, Percival John Neill .. 93 Oxford St., Manchester
Goodman, William ..... High St., Sevenoaks, Kent
Goring, Richard..... 43 Upper Kent Street, Preston
*Goss, George ..... 33 Berners St., Ipswich
Gray, William Edwin ..... 37 Trinity Sq., Borough, London S.E.
Green, Nathan Moore ..... 36 Pluto St., Kirkdale, Liverpool
Greenhill, James Donaldson .. Randolph St., Buckhaven
Griffiths, John Wilmot ..... 1 Rathbone St., Barking Rd., London, E.
Hadfield, John Hurst ..... Walton-le-Dale, Preston, Lancs.
Hanbury, William ..... 49 Park Lane, Norwich
Hands, Ernest..... Yieldfield Hall, near Walsall.
Harries, David ..... 37 Trinity Sq., London, S.E.
Harrington, Richard Beau .... 161 Denman St., Radford Boulevard, Notts
Harris, Waddelow Chambers .. 17 Ecksteiu Rd., Clapham Junction, S.W.
Harrison, James..... Deptford House, Sunderland
Harrison, John ..... Burtergill, Warcop, Westmoreland
Harrison, Thomas Nicholson.. 9 Ashgate Rd., Broomhill, Sheffield
Hartley, Thomas ..... 25 Wesbourne Terrace North, London, W.
Harwood, Thomas Henry .... New Quay, Cornwall
Haworth, William..... 22 Victoria St., Blackpool
Heely, Arthur..... 9 Bull Ring, Birmingham
Henderson, Christopher ..... 19 Woodchurch Lane, Birkenhead
Heron, Frederick Chambers .. 40 Southampton Buildings, London, W.C.
Hick, Henry ..... 126 Beckett St., Leeds
Hickes, Henry John..... 8 High St., Horncastle
Hill, John ..... Thornhill, Yorks
*Hilton, Ivor Ajax Robinson.. 52 Ivanhoe Rd., Denmark Pk., London, S.E.
Hine, Alfred Ernest ..... 9 Manly Terrace, Kennington Park, S.E.

Hodgkinson, Peter James..... 50 Bold St., Alexandra Rd., Moss Side, Manchester
Hogg, George ..... 41 Marchmont Crescent, Edinburgh
Holt, James Hartley ..... 53 Sandy Lane, Skelmersdale
Holtham, Charles ..... 2 Westminster Chambers, London, S.W.
Honeyman, Edmund..... 101 Dalry Rd., Edinburgh
How, William..... 52 South St., Dorchester
Howell, Evan John ..... 23 Telephone Rd., Southsea
Howell, Walter Septimus .... 70 Herbert Rd., Plumstead, London, S.E.
Hubbard, John ..... 13 St. Ann's Rd., Brixton, London, S.W.
Hudson, John William ..... 25 Jennings St., Hull
Hulley, John ..... 97 Manchester Rd., Heaton Norris, Lancs
Humphreys, Thomas Henry Phin Smith..... 106 Fenchurch St., London, E.C.
Hurry, James Henry ..... St. Mary's St., Bungay, Suffolk
Hutchinson, George..... Pottery Lane, Forth Banks, Newcastle-on-Tyne
Inglis, James..... 8 Cumberland St., Edinburgh
Innes, James ..... 4 Steels Place, Edinburgh
Jackson, David ..... Middleton Junction, Chadderton, nr. Oldham
Jacombs, William Henry .... 109 Newton Rd., Birmingham
James, Alfred..... 152 Bow Rd., London, E.
*James, Charles Frederick.... 5 Star St., Paddington, London, W.
James, Henry Arthur ..... 6 Crozier St., Westminster, London, S.W.
James, William ..... High St., Hucknall Torkard, Nottingham
Jeanes, George ..... 12 Emily Terrace, Putney
Johnson, Samuel ..... 67 St. Mary's Ter., Manningham, Bradford
Johnston, David ..... 30 Dale End, Birmingham
Johnstone, Donald Forbes .... 33 St. Patrick Sq., Edinburgh
Johnstone, William Hope .... 149 Shield's Rd., Byker, Newcastle-on-Tyne
Jones, Walter Robert ..... Parish Offices, Edmund St., Birmingham
Joy, Francis John Jessopp.... Cardiff
Jubb, William Officer ..... 80 Queen St., Hull
Juler, Richard Roan ..... 43 Powis St., Woolwich, London, S.E.
Keane, Edward ..... 31 Stall St., Bath
Keith, Albert William..... 25 Haddington Place, Edinburgh
Kemp, John ..... 7 Park View Ter., Stanford Rd., Brighton
Kemp, William ..... 81 Inkerman Terrace, Belfast
Kendrick, Alfred ..... 97 City Rd., London, E.C.
Kent, Edward ..... 59 Wood Lane, Shepherds Bush, London, W.
King, Robert ..... 91 Caledonian Rd., London, N.
*Kirkby, Robert ..... Serpentine Road, Kendal, Westmoreland
Kitching, Samuel ..... 6 Prospect St., Hull
Knight, Angus Arthur ..... 4 Repton St., Manchester
Knowles, Richard ..... 86 Newton St., High Park, Southport
Lambert, Thomas ..... 10 Ashton New Rd., Bradford, nr. Manchs.
Lane, William ..... 388 Holloway Rd., London, N.
Law, James ..... 41 Stone St., Maidstone
Lawson, Edward James ..... High St., Whitstable
Lear, George Hill ..... 373 Coventry Rd., Birmingham
Lees, John ..... 13 Columba Place, Clydebank, Glasgow
Lester, Theodore Christopher .. Hull
Lewis, Edward ..... 37 Egerton St., Chester
Lewis, Edward ..... 21 Woodch.Ln.,PrestonRd.,W.,nr.Birkenhd
Lewis, Henry Thomas ..... Alcester, Warwickshire
Lewis, Richard George..... 84 Powis Place, Aberdeen
Livesey, William..... 52 Raneleagh St., Liverpool
Llewellyn, Thomas..... 300 Bute St., Cardiff
Lloyd, Frederick Rugge ..... Suffolk Ln., Upper Thames St.,London,E.C.
Lodge, Arthur William..... 26 West St., Horsham
Low, Joseph..... 230A Commercial Road, London, E.
Lowe, Walter ..... 22 Brighton Street, Manchester
Lucas, Isaac..... 13 Plymouth St., C-on-M., Manchester
McConnal, Alan ..... Appleby, Westmoreland
McGill, Roderick..... 49 Thistle St., Glasgow
McKenzie, James ..... 20 Roseneath Place, Edinburgh
Macpherson, Mary ..... Crich, Derbyshire
McVitae, John Brough ..... 97 Sauchiehall St., Glasgow
Malcolm, Alexander ..... 18 South Frederick St., Edinburgh
Male, Trevan Bersey ..... 12 Endsleigh Place, Plymouth
Manning Hannah ..... London Road, Twickenham, Middlesex
Marshall, Arthur Willis..... 160 Upper Brook St., Manchester
Marston, Samuel..... 278 Belgrave Gate, Leicester
Masters, George Cheesman .... 17 Albyn Rd.,Lewisham High Rd.,Lon.,S.E.
Maw, Solomon Gervas ..... 139 Fitzwilliam St., Sheffield
Mellor, John..... 134 Petre St., Ellesmere Road, Sheffield
Meynell, John ..... Wirks Moor, near New Mills, Cheshire
*Millar, Thomas ..... 19 Bernard Street, Leith
Mitchell, Charles Edward..... 13 Rose Street, Bolton
Monkton, George Joseph ..... 7 Line Terrace, Canhall Rd., Leytonstone
Moon, George ..... Mapperley, Derbyshire
Moorhouse, Edward Dobson.... 153 Chester Rd., Hulme, Manchester
Morgan, Edward..... 17 Wheeler St., Leeds
Morris, John..... Friar Street, Worcester
Mortimer, Henry Thomas..... 24 St. Nicholas St., Leicester
Muir, George McCartney ..... Helensburgh
Murch, Edward ..... 13 Park St., Brighton
Murphy, Thomas ..... Higher Bridge St., Bolton, Lancs.
Murray, Alexander..... 27 Cromwell Street, Stornoway, Ross-shire
Murray, John ..... 14 Douglas Terrace, Edinburgh
Nairne, Charles ..... 228 High St., Perth
Newton, Thomas..... 31 Hedon Rd., Hull
*Nicholls, Reginald Edward .. 44 St. Paul's Rd., Highbury, London, N.
Neild, Richard ..... 40 Fern Acre Terrace, Cheetham Hill Manchester
Norrish, George ..... 91 Clarendon Rd., Notting Hill, W.
Notcutt, William Brighty .... Church Rd., St. Leonards-on-Sea
Nutman, George Robert ..... 25 Welford Rd., Leicester
Owen, James ..... 163 Bloomsbury St, Birmingham
Owles, Thomas..... 16 Sloane St., Manchester
Parkin, George Anthony ..... 3 Micklegate Bar Without, York
Parkinson, Charles..... Melita Villa, Mornington Rd., Leytonstone
Parks, Henry ..... 137 Horninglow St., Burton-on-Trent
Parry, Alfred ..... 18 Prince Regent Lane, Barking Road, E.
Parry, Marian ..... 3 Clarence Road, Bristol
Parry, Thomas Jones..... Ebenezer, Carnarvon
*Pasnin, Thomy..... Mauritius
Pater, Joseph Brewster ..... Heathville Rd., Gloucester
Paul, Andrew ..... 39 Abercorn St., Glasgow
Peach, Edward ..... 13 Webber Rd., Blackfriars, London, S.E.
Peake, Charlotte..... Bedworth, Warwickshire
Peat, William Henry ..... 46 Stamford St., London, S.E.
Percival, Thomas ..... 29 Paterson St., Glasgow
Peterkin, James ..... 13 Carlton St., Edinburgh
Phillipson, Frederick E. ..... 10 Fildes St., Corporation Rd., Great Grimsby, Lincs.
Pike, Charles ..... Brixham, Devon
Platt, Charles Rowley ..... 4 Bolton St, Piccadilly, London, W.
Porter, Clement ..... William Terrace, Harpurhey, Manchester
Porter, Thomas William ..... Preston, Lancs.
Preston, John ..... 11 Jonson's Place, Harrow Rd., London, W.
Price, John Rhys ..... High St., Chippenham, Wilts.
Price, Thomas Ulock ..... 81 Mallinson Rd., Clapham Junction, S.W.
Protheroe, Francis Richard Henry ..... Lydney, Gloucestershire
Quarmby, Thomas William .. Leydan House, Welshpool
Rackham, George ..... Wenhaston, Halesworth, Suffolk
Radclyffe, Robert Caygill Tom Abermaw Villa, Chestnut Rd., Moseley, Birmingham
Rastrick, George Thomas .... Geelong, Victoria, Australia
*Rastrick, Robert Joseph .... 37 Gloucester St., Belgrave Rd., S.W.
Richards, John ..... Maentwrog, Merionethshire
Richards, Richard Henry .... 366 Albany Rd., Camberwell, London, S.E.
Richardson, James ..... 87 Queen St., Port Elizabeth, Cape Colony
Ridley, Henry ..... 156 Newgate St., Newcastle-on-Tyne
Ridley, Joseph Whittle Harvey 156 Newgate St., Newcastle-on-Tyne
Rigby, James ..... 8 Mount Pleasant, Waterloo, Liverpool
*Riley, Charles Reynolds .... Elm Tree Lodge, South Lambeth Rd., S.W.
Ring, Edward James ..... 21 Springfield Rd., St. John's Wood, N.W.
Roberts, Anthony Tucker .... 21 Buckingham Rd., Brighton
Roberts, Charles ..... Marsden, near Huddersfield
Roberts, Robert ..... 135 Upper Hill St., Liverpool
Roberts, Thomas Aneurin .... Conway, Carnarvonshire
Robertson, Donald ..... Bervie, Kincardineshire
Robertson, George Smith Birrell 17 Dundas St., Edinburgh
Robertson, James Dalgety .... 139 Princes St., Edinburgh
Robson, Matthew ..... Prospect House, Corbridge
Ross, William Neil ..... 13 Rosevale St., Patrick, Glasgow
Rostron, William ..... 19 Cardwell St., Bolton
*Rowell, John George ..... 241 Hyde Park Rd., Headingley, Leeds
Rowlatt, Thomas Charles..... 26 Barnby St., West Ham, London, E.
Sadler, Thomas ..... 105 Bow Rd., London, E.
Sanderson, James Boyer ..... Barnack, Northamptonshire
Sanderson, Thomas ..... 71 Parade, Birmingham
Saul, William Benjamin ..... 2 Parade, Northampton
Schofield, Samuel ..... 20 Eden St., Oldham
Scott, Henry Fife ..... Woodlea Pl., Provost Rd., Dundee
Scroggie, John Henderson .... 16 Bristo Pl., Edinburgh
Scatter, William ..... 11 Moncrief Terrace, Edinburgh
Sessions, Robert ..... Charlbury, Oxon
Shaud, James Sellar ..... 4 Braid Pl., Edinburgh
Sherlock, James ..... 207 Great Lister St., Birmingham
Simpson, Samuel..... Town Clock House, Gosport, Hants
*Sirett, George Beynon..... Market Sq., Buckingham
Slade, Thomas Bate ..... 118 Long Acre, London, W.C.
Slater, Joseph ..... 82 Martin St., Leicester
*Smee, Walter Wallis ..... 27 Union St., Ryde, I. of W.
Smith, Andrew Lees ..... 22 St. Leonard St., Edinburgh
Smith, Catherine Love ..... 15 Abbotsford Pl., Glasgow
Smith, Charles Albert ..... Brook St., Derby

Smith, John	55 Myrtle St., Liverpool
Smith, Peter	7 High St., Runcorn, Cheshire
Smith, Thomas	3 Greenway Rd., Coronation Rd., Bristol
Smout, Charles Lickford	Ipswich
Snape, John George	13 Great Hampton St., Birmingham
Solly, Stephen Francis	High St., Dorking, Surrey
Somers, Robert Walter	The Green, Mortlake, London, S.W.
Spencer, John	Elm Tree Cottage, Burton Pidsea, Hull
Spencer, Robert	135 Gooch St., Birmingham
Spensley, Thomas Brentnall	109 Whiteladies' Rd., Clifton, Bristol
Splnk, Harry Laing	36 Pitfield St., Hoxton, London, N.
Spreckley, George	55 King Henry's Walk, Mildmay Park, N.
Stapleton, William Waller	Shefford, Beds.
Stead, John	High St., New Whittington, Derbyshire
Stead, Thomas Albert	Formby, near Southport
*Steel, David	25 Lothian Rd., Edinburgh
Steel, John	Bridge St., Kilbirnie, Ayrshire
Stevenson, David Archibald	2 Portland Villas, Addlestone, Surrey
Storey, Theophilus	7 Pilgrim St., Newcastle-on-Tyne
Strachan, John	14 Guilford St., Russell Sq., London, W.C.
Strawson, Vincent	25 Islington, Liverpool
Strickett, John	High St., Peckham, London, S.E.
Stubbs, George	Darlington.
Stubbs, Tyson	175 High St., Deal, Kent
Stuckey, William George	33 Ladbroke Grove Rd., London, W.
Sturges, William Thomas	30 Shepherd's Bush Green, London, W.
Swift, Charles Edward	Great Bridge, Staffordshire
Talbot, Hugh	Sidmouth, Devon
Talbot, Thomas Henry	106 Fenchurch St., London, E.C.
Tate, John Lister	Park Lane, Wakefield
Tayler, Joseph Walter	Boston, Mass., U.S.A.
Taylor, Arthur Bertie	27 Meeting House Lane, Peckham, S.E.
Taylor, Benjamin	160 Briggate, Leeds
Taylor, Frederick Hayden	St. James St., Kings Lynn
Taylor, James Johnston	18 Duncan St., Drummond Pl., Edinburgh
Taylor, John	42 Walker Terrace, Gateshead
Taylor, Robert Scott	459 London Rd., Heeley, Sheffield
Thompson, Thomas	15 Ramsgate, Stockton-on-Tees
Tiffany, John William	35 Brunswick St., Halifax
Tipper, Jonathan Edward	High St., Evesham, Worcestershire
Todd, Levi	154 Moss Lane East, Manchester
Tozer, Frederick Early	Chestnut Villa, Addlestone, Surrey
Trounson, Francis Parminster	1 Morrab Terrace, Penzance
Truscott, William Hearle	76 New Bond St., London, W.
Tuck, William James	Sultan Rd., Portsmouth
Tupholme, John James	The Terrace, Spilsby
Tyas, William Henry	11 Diamond Pl., Coldbath Rd., Harrogate
Tyrrell, Thomas Henry	24 Wellington St., Luton, Beds
Urquhart, Roderick	Edinburgh
Veitch, William	45 Harold St., Burley Fields, Leeds
Waddington, Samuel	Court House, Weaver, Winsford, Cheshire
Walker, John Callow	122 Lordship Lane, East Dulwich, S.E.
*Walker, Joseph	Belgrave Rd., Dresden, Staffs
Walklate, John Thomas	Liverpool Rd., Stoke-on-Trent
Wanless, Frederick Adolphus	16 Claremont St., Manchester
Watson, Albert James	257 High Holborn, London, W.C.
Watson, John	Lichfield Rd., Aston, Birmingham
*Watton, Edward	High Street, Bromsgrove
Weall, George Alexander	The Fosse, Leicester
Welch, George Richard Julians	8 Stanley St., Southsea
Welsh, Thomas	5 High St., Penicuik, N.B.
Wheeldon, Joseph, jun.	36 Upper Jackson St., Hulme, Manchester
Wheeler, Alfred	9 Lower Market St., Hove, Brighton
Whewell, William Edmund	The Sheep Market, Market Harborough
White, Arthur James	14 Werrington St., London, N.W.
White, William Thomas	174 Kennington Rd., London, S.E.
Whitehead, John Warburton	38 Brunswick St., C. on-M., Manchester
Whittaker, William	7 High St., Runcorn, Cheshire
Whitwell, Ann	Thirsk, Yorks
Wilde, Francis	London St., Andover
Wilks, Roberts	Sheep St., Skipton, Yorks
Williams, Evan David	161 New Cross Rd., London, S.E.
Williams, George	70 Ledbury Rd., Bayswater, London, W.
Willison, William Henry	11 West Pembroke Place, Earl's Court Rd., Kensington, London, W.
Wilson, George	3 Ebenezer Terrace, Enfield Town
Wilson, Joseph	9 Ivegate, Bradford, Yorks
Wilson, William Mainland Lewis	Park Hill Villa, Church Hill Rd. Walthamstowe
Wingrave, Joseph	4 High St., Coventry
Winship, James	40 East St., Southampton
Witherington, Thomas James	8 Foregate St., Worcester
Witney, Frederick Harcourt	154 Spa Rd., London, S.E.
Wolfendale, Richard	Tutbury, near Burton on-Trent
Wood, Albert Edward	4 St Catherine's Ter., Southborne-on-Sea
Wood, Benjamin	78 Northgate, Halifax, Yorks
Wood, William	78 Northgate, Halifax, Yorks
Woodstock, Charles Edmund	Bradley Green, near Congleton
Wright, Harry	7 Commercial Buildings, Bridge St., Bradford, Yorks
Wright, Joseph Pretty	154 Station Rd., Burton-on-Trent
Young, Dixon	42 Maple St., Newcastle-on-Tyne
Young, William Herbert	35 Baker St., London, W.
Younger, Robert Edward	Northgate St., Ipswich

New Companies and Company News.

W. A. DAWKINS & CO. (LIMITED).—Capital 5,000*l.* in 1*l.* shares. Objects: To acquire and take over as a going concern the business of William A. Dawkins, trading as "W. A. Dawkins & Co.," at Speedwell Works, Warstone Parade, East Birmingham, horticultural-implement factor, manufacturer of photographic, limelight, and scientific apparatus, manufacturing chemist, and garden-pest exterminator manufacturer, to adopt an agreement, dated August 27, 1894, between Wm. Dawkins of the one part, and John Tibbetts (for the company) of the other part, to acquire patent dated June 22, 1894, granted to W. A. Dawkins for "improvements in, and relating to, limelight jets," also one of same date for "improvements in, and relating to, photographic cameras," and No. 4,583 granted to Thomas W. Wilson and Harry Butler on March 8, 1892, for "improvements in lamps," and to carry on the business of manufacturers of photographic cameras, limelight jets, magic-lanterns, and other scientific apparatus, manufacturing chemists, manufacturers of proprietary articles, such as powders and polishes and garden-pest exterminators, and horticultural implement and garden-tool manufacturers and factors.

KROKSHOLM ANGLO-SWEDISH FISH-GUANO AND OIL COMPANY (LIMITED).—Capital, 25,000*l.* in 5*l.* shares (of which 1,500 are preference and the rest deferred). Objects: To acquire and carry on the business of fish-guano and oil manufacturers, carried on by George A. Hart and Herbert W. Hart, as Hart Brothers, at Krokshom, in the island of Lofo, in the kingdom of Sweden, together with all rights in connection with such business, and to enter into an agreement with the vendors for the purpose. The subscribers (who take one share each) are:—G. H. Anderton, Kilpin Lodge, Howden, chemical-manufacturer; C. C. Graham, J.P., 165 Beverley Road, Hull; H. Whittick, the Newlands, Hull, yeast-merchant; M. Saumchon, C.E., Hessle, East Yorks; W. C. Townsend, Hull, solicitor; J. W. Chilman, Hull, solicitor; T. Stimson, 22 Regent Street, Hull, clerk. The first directors (to number not less than five nor more than seven) are:—George H. Anderton, Christoper C. Graham, George A. Hart, Herbert W. Hart, and Henry Whittick. Qualification, 250*l.* Remuneration, 150*l.* per annum, divisible. The two vendors are the managing directors. Registered office, Cogan Chambers, Bowlalley Lane, Hull.

CHEMISTS' AËRATED AND MINERAL WATERS ASSOCIATION (LIMITED).—The report of this company for the year ending September 29, 1894, states that although the sales of individual chemists are, in nearly every instance, considerably below those of last year, yet the large influx of new shareholders has so materially helped to swell the total output that the directors are enabled to recommend the payment of a dividend and bonus amounting to 15 per cent. They state that 462 new members have joined the Association during the twelve months, and they report favourably on the working of the Mitcham factory, and think that there is a good future before this young branch. They have sunk an artesian well on their Harrogate property, and have thought it advisable to dispose of, at a profit, the two houses near the Bristol factory which they purchased last year. They propose to give the employés a good bonus—namely, a sum equal to two weeks' wages. The dividend of 10 per cent. and a bonus of 5 per cent. free of income-tax will absorb 2,860*l.*, leaving a balance to carry forward of 497*l.* 2*s.* 11*d.*

A PHYSICIAN wants a cure for the methylbenzomethoxyethyltetrahydropyridinecarboxylate habit. Let him try oleumpalatolaryngeopharyngeum.

The Winter Session.

PHARMACEUTICAL SOCIETY.

The first evening meeting of the session was held at 17 Bloomsbury Square on Wednesday, when, at 8 o'clock, Professor Reynolds Green gave a lecture on

The Nervous System in Plants.

In spite of the inclement atmospheric conditions there was a very good attendance.

In some remarks introductory to his subject, Professor Green referred to the old distinctions between plants and animals, which gradually weakened as time went on until the absence of sensation in plants became the final and crucial point of separation between the animal and vegetable organism.

The highly-developed nervous system may be regarded as including three ideas—(1) the power of originating movement, from an occult change in the organism; (2) receptivity, or the power of receiving impressions from an external source; (3) the power of co-ordination, by which a stimulated sensitive surface finds expression in a reflex action.

Amœba, as representing a low form of animal life, and "flowers of tan," as representing the low vegetable organism, were shown on the screen for purposes of comparison.

A great difference between plants and animals lies in the conditions of their respective environments. The animal has the power of locomotion; the plant, relatively speaking, is stationary. There must be an agreement between the organism and its environments, and the study of this relation was the subject of Professor Green's discourse.

As the nature of the environment must necessarily influence the plant for good or ill, it is essential that the vegetable organism may be able to discriminate between these factors of benefit or danger. The air may be damp or dry, the temperature high or low, the light weak or strong—conditions which the leaves, as well as the roots, must take note of. Differentiation of various parts, therefore, occurs, in which specialised organs are set apart to derive the fullest benefit from the plant's environment; the chlorophyll grains in the leaf, the absorbing portions of the root, exhibit this power of the plant's adaptability. And, broadly speaking, the loss of locomotion in plants is compensated by modification and expansion of cell surface.

Asking if plants are sensitive, Professor Green called attention to a telegraph-plant, *Desmodium gyrans*. In a normal condition the leaves of this plant go through a cycle of movements about every two minutes, but under improper conditions it no longer exhibits its phototonic motions; its leaves droop, and recovery only occurs after some lapse of time. A mimosa-plant had found the atmospheric conditions unsuitable, and instead of having its leaves on the alert, ready to droop when stimulated, the plant "slept" all the evening.

In *Drosera rotundifolia* the power of movement is localised in the tentacles, and these may be stimulated by a fly or an electric current.

Mesocarpus, instead of "squirming," as many chainlike organisms do, bursts with violent disruption into its constituent cells when stimulated.

There are two chief modifications of nerve processes—the efferent or motive impulses, and the afferent or sensory mechanisms.

The afferent mechanisms are seen in the reception of impression by the individual, and the movement is translated in another form, as Shylock says, "Tickle me, and do I not laugh?"

In animals the variety is seen in the complexity of the reflex actions; in plants the delicacy lies in the impression, the subsequent expression is less highly developed.

The principal though not the sole points of manifestation are the young, growing parts of the plants.

Professor Green then referred to what he was pleased to describe as indications of certain sense-like attributes in plants. The fine fibrils of *ulothrix* respond to light, which seems to indicate that they have the capacity of appreciating light. The general principle of heliotropism, or the plant's movements in responding to the rays of the sun, and plants grown in the dark as compared with those grown in the light, were further illustrations of this suggested sense of vision.

Darwin found that the receptivity of the growing tip to light did not extend more than ⅛ inch from the apex.

The sense of touch was discussed in view of the sensitive plants, and a lowered temperature was suggested as being possibly responsible with the lessened light for the "sleep of flowers."

The mechanism which causes the drooping of mimosa-leaves and the turgescence at the base of the pulvinus were clearly shown in a very graphic fashion.

Darwin's comparison of the sensibility of the tentacles of drosera as compared with the tip of his own tongue indicated how much more sensitive the plant was.

In the sense of taste, as seen in the movements of the antheridia of ferns, Professor Green traced a reason for the expression of this sense in plants, and he concluded a lecture, delivered, as the President said, with exquisite simplicity, with a discourse on the influences of gravity upon plants.

ABERDEEN ASSISTANTS' AND APPRENTICES' ASSOCIATION.

The opening meeting of the session was held on Tuesday evening, November 6 Mr. D. M. Macdonald, President, in the chair. Nearly fifty members were present, when the President gave a short opening address touching chiefly on the Pharmaceutical Society and company-trading. He thought that the Society might with advantage take more interest in the younger section of pharmacy. The different associations springing up over the country could be made the basis of operations, while a preliminary step would be the appointment of a representative conversant with its advantages, who would induce membership. Company-trading had the tendency to increase in commercial lines, and, although they trusted to the mixed and peculiar nature of pharmacy, with its large field for personal enterprise and individual effort, to ward it off, yet these qualities had to be ably sustained, and coupled with thorough knowledge of increasing requirements, if the chemist of the future were to hold his own. Legislation had not instituted stores, and if these institutions satisfied the letter of the law, it could not in equity suppress them

SOCIETY OF CHEMICAL INDUSTRY.

Newcastle Section.

The first meeting of the session was held on Thursday, November 8, in the Chemical Lecture Theatre of the College of Science. Mr. George France, J.P., the newly-elected Chairman, presided.

Mr. Saville Shaw, Lecturer on Chemistry at the College of Science, was elected hon. secretary in place of Dr. Dunn, who is now at Plymouth.

A paper, by Dr. Lunge, Zürich, was read by Professor Bedson on

PRACTICAL RESULTS OF THE LUNGE-ROHRMANN PLATE TOWERS FOR CONDENSING HYDROCHLORIC ACID.

A little more than a year ago Mr. Richard Curtius, managing partner of Messrs. Matthes and Weber's alkali-works at Duisburg, Germany, fitted up one of their salt-cake furnaces with a condensing-plant based on the system of plate towers, and, according to Dr. Lunge, obtained most encouraging results from the outset. The furnace has been running ever since, and is said to produce a better yield of acid than any system which has been hitherto known. Mr. Lasche, the works manager at Duisburg, will shortly publish the results obtained. The salt-cake furnace is of the muffle type, decomposing ten charges of salt every twenty-four hours, amounting to 4 tons 5 cwt., or 30 tons per week. The pin-gas and muffle-gas travel separately through about 30 feet of 16-inch pipes, and then enter two small towers (3 feet wide and 10 feet or 13 feet high)—one of them empty, the other filled with coke; the gas then enters an empty receiver, and passes through six ordinary earthenware receivers (bombonnes) holding 66 gallons each, the connection being made

by high bends to increase the cooling action. In all, the gases travel over a distance of 130 feet before entering the plate towers. These consist of nine cylinders 3 feet wide and 3 feet 3 inches high. The bottom cylinder is empty, the next three cylinders contain sixty Lunge-Rohrmann plates, the fifth cylinder is empty, the sixth and seventh contain coke (resting on an earthenware grating), and the two top cylinders are again empty.

Dr. Lunge contends that the trial at Duisburg has fully justified his assertion that a plate tower possesses 10 to 20 times the condensing power of an equal space of coke tower. The space filled with plates at Duisburg is 2 feet 4 inches wide and 10 feet high, equals 74 cubic feet, and this, with a decomposition of 30 tons salt per week, gives only 2·46 cubic feet per ton of salt per week, whereas Dr. Lunge says the average condensing space in English works with coke towers is 50 cubic feet.

Dr. Hurter, who had received an advance copy of the paper, also sent a note on the subject, which was read after Professor Lunge's. He objected to the author's conclusions, and especially criticised the statement that 1 cubic foot of Lunge and Rohrmann plate space was as efficient as 20 feet of coke-tower space. Out of the 1,400 cubic feet of cooling and condensing space, about 1,000 cubic feet came before the plate towers. He drew the following conclusion from Dr. Lunge's figures:—In the coke space 74·9 per cent. of the total hydrochloric acid was condensed, in the plate space 11·8 per cent, whereas the bombonnes would condense about 13·3 per cent. of the whole. He suggested that the Duisburg authorities should also try the experiment of taking out all the Lunge and Rohrmann plates and substitute a rational coke packing, and then observe the results as to yield, &c.

Messrs. Rennoldson and Martyn also took part in the discussion.

MIDLAND PHARMACEUTICAL ASSOCIATION.

A meeting of this Association was held at the Mason College, Birmingham, on November 8, Mr. R. D. Gibbs, President, in the chair, when a paper was read on

Tinctures and Tincture-making,

by H. W. Jones, F.C.S. The following is an abstract of the paper:—

The pharmacopœial tinctures are made by several methods, the bulk being produced by a combination of maceration, percolation, and pressure. By those means it was intended to fully exhaust the drugs, and present the soluble constituents in a definite volume of liquid. The purpose was answered, but with more complex working than necessary. In the original edition of the 1885 Pharmacopœia tinct. zingib. fort. was directed to be prepared by percolation, but in the "additions" subsequently published three others were ordered to be so made. The general instructions for tinct. hamamelidis and tinct. hydrastis were perfect, and it was to be taken as a sign of the times that the more modern method was recognised. That the bulk of the tinctures of the Pharmacopœia could, with advantage, be so prepared would not be controverted. The three essential points to be attended to were—(1) to damp as quickly as possible to avoid loss, and to store in a closed vessel during maceration; (2) to properly pack the moistened ingredients so as to avoid air-spaces; and (3) to keep the surface just covered with the menstruum during the entire process. Some operators packed straightway into the percolator after damping, but, in most cases at least, the author found it advisable to store for 24 hours in a separate closed vessel, and to finally mix well together, adding a little more menstruum if really necessary before the final packing. The percolator was generally advised to be of a conical shape, but operating on a large scale, with a considerable amount of material, a vessel of that form had the disadvantage of giving a large surface to the upper layer of spirit, and consequent liability to loss from evaporation. Whatever form of percolator was adopted it was a distinct advantage to have the bottom part of it tapering. For the author's own part he preferred a tap, which could be closed or opened, to a simple tube; and showed a model of a percolator which he had devised. This consisted of an upright, somewhat narrow metallic vessel, with a funnel-shaped bottom part, provided with tap having a thread-screw on the outer part, so that tubes of various lengths could be screwed on or off; the special feature of the percolator being a band of metal around the bottom part, deep enough to enclose the tap when the tubes were removed. By means of the band the apparatus would stand erect on any plane surface. In use the percolators were arranged on a stout bench with diamond-shaped holes, through which the hand could be passed to turn on or off the taps, or fix the tubes.

In commenting on various tinctures it was considered that with tinct. camph. co. the opium might advantageously be replaced by a corresponding amount of tinct. opii, as advocated by Squire. In the case of tinct. card. co., the author said he would venture to suggest that the variety of raisins known as "sultanas" might be used, as they contained no stones. As was well known, the B.P. instructions gave a product more than 80 oz. without making up. It was a tincture which could be prepared by percolation, if the various ingredients were well mixed together. Tinct. cascarillæ had been suggested to be prepared by means of a weaker spirit, but Groves found that even with proof-spirit it was nothing like so good as when the spirit was slightly stronger. Tinct. guaiaci ammon. would be better prepared with a stronger menstruum, Wright's proportions of 18 oz. S.V.R., and 2 oz. liq. ammon. fort. giving 82 gr. per oz. of solids against 62 gr. for the present spirit of ammonia. Tinct. myrrhæ was an example of a tincture which could not be prepared by percolation without previous maceration; tinct. podophylli should not be fluorescent. The author had recently seen a tincture which was strongly so, and he had pointed out some years ago that that result was due to the employment of resin precipitated in alum-water instead of by the B.P. method. Heat was unnecessary in making tinct. quininæ; and the suggestion of Lunan as to the substitution of carbonate of ammonia for the hydrate was worthy of the attention of the Pharmaceutical authorities, since the product formed a clear solution with 13 parts of distilled water, whereas the present tincture required 26 parts.

However made, tincture marcs retained a decided amount of spirit. By pressure a certain proportion could be obtained, but a relatively large quantity was left behind. He had found, for example, that a batch of 60 gallons of tinct. opii would leave something like 2 gallons in the marc, and a similar amount of spirit would be retained by marcs resulting from 16 gallons of tinct. cinchon. co., tinct. hyoscyam., and tinct. sennæ. In no case was it desirable to wash out that spirit with water if it were intended to form part of the finished product. On the whole, he preferred to percolate right through with the proper menstruum till the full bulk was obtained, and to recover the spirit from the marc by distillation in a large still with sufficient water to prevent the formation of clots of material. To wash certain marcs with water took considerable time, during which the mass was apt to become mouldy or decompose.

In reference to standardised tinctures, there was a definite statement as to the alkaloidal strength of both tinct. opii and tinct. nuc. vomicæ in the Pharmacopœia. Experience had shown that the menstruum did not exhaust the opium; but by taking a tincture made with a strong opium and one made with a B.P. drug, the percentage required could be obtained by mixing the two in the proportions indicated by an assay. As to the method of assaying tinct. opii, he would prefer to follow the B.P. method as closely as possible rather than attempt washing out with acetic ether and chloroform. Familiarity with tinct. nuc. vomicæ had not strengthened the view that the use of extract was the best method of preparing it. Similarly, the employment of extracts of other drugs was not to be advocated. The subject had received particular attention at the 1893 meeting of the British Pharmaceutical Conference, and had been condemned. A tincture was supposed to contain the constituents of the drugs as they existed in the drugs themselves, unaltered by heat. Gerrard's statement had not been controverted, that with atropine a solution boiled even with alcohol for ten minutes lost 50 per cent. of its alkaloid; and other bodies would be equally liable to change.

At present there was no direct authority for standardising generally, but there was a demand for standardised preparations, and the result was that in the absence of official methods each wholesale house or each pharmacist was left to fix the standards, so that uniformity was not likely to exist. Something was wanted more than mere statements

of percentages; the methods of analysis should be well defined. Mayer's solution was out of date, and it was hardly settled whether volumetric methods or gravimetric processes should be followed, or even in some cases, as in that of aconite, if the test should not be physiological. Messrs. Wright and Farr stood pre-eminent amongst British workers, and had for years been publishing the most important results, and he thought their methods of assay might well be adopted. Various standards had been suggested, in most cases of average good drugs, but the author of the paper had met with a practical difficulty which required some consideration. It was that it was not difficult to obtain drugs frequently above any average that might be fixed, and the question arose, Should we use less to produce a preparation of "average" strength? He thought not, as the Pharmacopœia distinctly ordered a definite weight to be taken, so that, for the present at least, he ventured to suggest that the standard adopted should be that approximating to the highest percentage.

Concentrated tinctures might receive some attention at their hands. They were more properly described as fluid extracts, and experience had shown that fluid extracts prepared with proof spirit at least were somewhat unstable. So that it might be asked, What strength of spirit should be used for exhaustion? As an example they had tinct. catechu, and to produce a concentrated tincture four times the ordinary strength it was required to dissolve or exhaust 10 oz of catechu with sufficient proof spirit to form 1 pint of finished liquid. Could a permanent and satisfactory preparation be so made? Again, capsicum formed a tincture in which an excess of spirit might appear to be used for exhaustion, but the dose being small it was probably better for dispensing purposes than a stronger tincture given in smaller amounts. If concentrated tinctures were used, let them be employed for special purposes rather than for the preparation of the official tinctures.

Discussion.

In the course of the discussion which followed Mr. Jones's paper,

Mr. John Barclay said he fully agreed with Mr. Jones that in many cases the method of percolation adopted in the B.P. additions was by far the most useful method of preparing tinctures. He had not found any great difficulty in recovering spirit from, *e.g.*, ginger marc by washing through with water, but, of course, it took time. With regard to tincture of opium, he had found it possible to practically exhaust the drug if it were used in the moist condition and thoroughly softened with water, the quantity of rectified spirit necessary to produce the proof strength being subsequently added to the magma. He was strongly in favour of the use of standard extracts for producing standardised tinctures, for if the extracts were reliable so also would be the tinctures obtained from them. It was true that the physiological assay of alkaloids was by far the most valuable, and it had been shown by Dunstan to be the only reliable method in the case of aconite; but until physiological methods were more matured he thought the weighing and subsequent titration with standard acid of an alkaloid would be found valuable. In preparing standardised tinctures it was important to have the standard sufficiently high, and that being done he thought that the pharmacist who used the B.P. quantity of a drug in preparing, say, a tincture was amply justified in diluting that tincture if his assay of it showed that drug to have been abnormally strong. He had had some experience of growing henbane in the Midlands—viz., at Evesham, and had found the attempt was fairly successful. With reference to concentrated tinctures no one supposed that they were so good as the more dilute preparations, and in many cases it was utterly impossible to prepare them; but there was a demand nowadays for concentration, and to medical men particularly standardised concentrated tinctures were undoubtedly useful.

Mr. Alcock asked how the pharmacist, who was not content unless he made his own tinctures, could economically recover the 2 oz. of spirit lost in making 1-pint batches of tinctures. It had been observed by several workers that when making paregoric elixir with tinctura opii in place of opium, a turbidity was produced which in a day or two passed away and the liquid became quite clear and no sediment was formed. By the substitution of sultana raisins for the official variety of good quality a distinctive and characteristic flavour imparted by the latter was lost. In the preparation of large batches of extractum cinchonæ liquidum much alkaloid was lost during the process of evaporating, and perhaps the same thing occurred when making vinum ipecacuanhæ, and therefore it was not desirable that tinctures generally should be made from extracts or concentrated liquors if heat is used in their preparation. The method often suggested for making laudanum by extracting first with warm water, cooling, and then adding the correct amount of S.V.R., was not to be encouraged. Much mucilage was thereby removed, only to be precipitated again on the addition of the spirit, and this precipitation may go on for some time in the finished product. There were serious objections to the standardization of potent tinctures, unless the amount and name of the physiologically active constituents present in them were carefully determined and stated. Thus tinctura nucis vomicæ probably owes its activity solely to strychnine, but the one grain of total alkaloids per fluid ounce may be made up of any proportion of the alkaloids of nux vomica, and it passes muster if only a trace of strychnine be present. It is better to say that it shall contain 1 grain, and that at least ½ grain shall be strychnine.

Mr. Gibson (Wolverhampton) spoke of the difference in tr. card. co. when made with B.P. raisins and when sultanas were used.

Mr. Perry said it was a retrograde step for pharmacists to give up, as many of them did, the making of their tinctures and other preparations. If such a practice were resorted to and continued in, pharmacy, except in the hands of a few, would be in danger of becoming a lost art. It behoved pharmacists to set their faces against it. With regard to the preparation of tinctures, no doubt the process of which they had several examples in the B.P.C. Formulary, and to which Mr. Jones had alluded, was an "up-to-date" process, and might well be extended to many other tinctures. At the same time, for many drugs, and especially where it was desirable to retain to the fullest the odorous principles and where, consequently, the materials should be subjected to as little heat and exposure as possible, and especially for small quantities, maceration with the whole of the menstruum, with subsequent pressure, and without any additional spirit to make up, would, he thought, have the preference. In the recovery of the spirit from the marc, Mr Perry was not clear whether Mr. Jones pressed the marc before transferring it to the still; and did he mix the marc with a quantity of water before distilling, or distil without the admixture with water? In reference to the standardising of tinctures, he asked Mr. Jones if, in connection with the "shaking-out" process for the determining of alkaloids, he had tried the device recently recommended [by Mr. Gunn in The Chemist and Druggist] of filtration under pressure for overcoming the trouble and tedium occasioned by the formation of "emulsions."

A vote of thanks for the paper having been passed,

Mr. Jones, in acknowledging it, said that, with regard to the recovery of spirit from the marcs, he passed spirit through sufficient to make the required quantity. He did not press the marc, but transferred it to the still, added a quantity of water, and recovered by distillation. He had not tried the apparatus spoken of by Mr. Perry in connection with the "shaking-out" process.

BRIGHTON JUNIOR ASSOCIATION OF PHARMACY.

A paper on "The Glacial Period" was read by Mr. A. E. Colman before the members of this Association on November 7. Mr. Colman had an appreciative audience, and an animated discussion followed the paper.

POLYTECHNIC PHOTOGRAPHY CLASSES.

The opening meeting of the Polytechnic School of Photography for the 1894–95 session took place on the evening of Thursday of last week. In the large hall there was given by Mr. Gear an exhibition of photographic slides with the optical lantern for the purpose of demonstrating the various processes of lantern-slide production, and afterwards there were shown some of the old Polytechnic hand-painted slides and some mechanical effects which were the

delight of the past generation. After a musical interlude, Dr. Garnett distributed the prizes won during the last session, and Mr. Howard Farmer gave a brief but very interesting lecture entitled "A Photographic Wedding," in which he intimated that he had discovered a method for the utilisation of bichromate of potash in regard to process work which would materially simplify the conditions of that class of work. In the Marlborough Rooms, while the proceedings in the large hall were in progress, there were demonstrations of the enameline process of etching by Mr. Alexander A. K. Tallent, the new daylight tissue by Mr. Walter White, the productions of zinc typographic blocks by Mr. Henri Calmels, photo-lithography by Mr. Gilbert Ruthven, the collotype process by Mr. George Holtzhausen, and the use of the Meisenbach screen for process negatives by Mr. Charles W. Whiting. The meeting was largely attended, and considerable interest was manifested throughout.

MANCHESTER PHARMACEUTICAL ASSOCIATION.

At the meeting of this Association held in the Grosvenor Hotel on Wednesday, November 14, Mr. G. S. Woolley in the chair, a lengthy but interesting paper entitled

Eighteen Months' Pharmaceutical Council Work,

by Mr. J. Rymer Young, F.C.S., of Warrington. Mr. Young said he had at first thought of taking one of the scientific subjects relating to the calling. But their Secretary had urged that a subject should be raised offering an opportunity for a general discussion on ordinary trade topics. Mr. Young said the privilege and the honour, as he always regarded it, of being on the Pharmaceutical Council was entirely due to the splendid way in which his candidature was initiated and supported by this Association, and to the valuable help from kindred associations which Manchester friends were willing and able to divert in his interest. The district, he said, had emphatically demonstrated that it can secure the election of its nominee, whenever the members choose to interest themselves in the matter in an active manner. Mr. Young proceeded to deal with the principal subjects which had come before the Council during his association with it. First he alluded to the important changes which will soon take effect regarding

THE EXAMINATIONS.

He thought it wise there should be a constant but gradual process of addition and elimination, not only in the case of the Board of Examiners, but in the Council itself. He also argued in favour of the decision to strengthen the board by the appointment, in the purely scientific subjects of chemistry and botany, of a limited number of professional teachers as examiners in these departments. At the same time we would not feel disposed to carry this innovation further than the two subjects named. In pharmacy, materia medica, and dispensing there can be no better examiner than the pharmacist pure and simple.

Commenting on the high percentage of failures in candidates for qualification, which, however, he was informed, is not higher than in the case of most scientific and medical examinations, he determined, he said, to try to find out for himself how this deplorable state of affairs came about. He passed the greater portion of a day in the examination hall, and could safely say that the secret of most of this wholesale slaughter is the appalling ignorance and astounding stupidity of the candidates themselves, many of whom are so utterly unprepared that one could not seriously suppose that they ever imagined it possible to get through. First and foremost, the early education of many of them must have been lamentably bad—faulty grammar and erratic spelling, shaky composition and miserably weak descriptive powers, were all unmistakably indicative of defective early training. These considerations led to the advocacy of a higher standard for the preliminary, and a compulsory curriculum of study. It was not certain that pharmacy, with such restrictions added to those now existing, would offer sufficient reward to attract the type of men wanted, but with this they ought to have no concern. It is their plain duty to maintain a high standard of qualification, whatever the consequences may be, and it is not less their duty to make this elevated standard attainable and possible. It might have the effect of checking somewhat the number of men seeking entrance into the business, but, seeing that it is already inordinately crowded, it was not clear how this need embarrass existing chemists, who can have no possible object advantageous to themselves in the wholesale manufacture of opponents, and at any rate, if fewer, they should have very much better men, which would be ample compensation. The system by which candidates persistently neglect every opportunity for acquiring knowledge during their apprenticeship, and then expect a coach to make modern Solomons of them by some magic rub of Aladdin's lamp in a few weeks' high pressure, hurry and skurry work, is largely accountable for the almost idiotic answers frequently heard during examination. Some of those related by examiners (mostly pharmaceutical) are amusing enough to bear repetition. Of these Mr. Young gave the following

INSTANCES.

One tyro explained that benzoin should always be rejected if it had any white pieces in it. The natives collecting it were in the habit of pushing pieces of chalk into the soft places. Another made argent. nit. by putting silver into nitric acid, and allowing it to crystalise out when it had ceased working. Refreshingly brief, but lacking a little in detail.

A botanical examinee in naming a dandelion-leaf thought the "dens leonis" meant lion's den, an answer more than once heard in the examination-hall.

Another, when asked to describe the male and female organs of a plant, frankly expressed his surprise that they had any. Another thought musk was obtained from the muscat—whether the muscat of Alexandria, he could not say. Still another individual said that aq. camph. was made by floating a piece of camphor on the surface of the water—the air assisting the camphor to dissolve. Probably the student was, in this instance, relying on his practical knowledge, for many of us have seen it made that way, but it is not the P.B. method.

Avoirdupois was the name of a man. Cream of tartar was the precipitate which came to the top when salts of tartar was dissolved in water.

Nitrate-of-silver pills should be coated to prevent them dissolving and injuring the coat of the stomach.

Cold water is used in making infusion of columba because hot would dissolve the gelatine.

Pepsine is made by scraping the back of a pig (a tip for Mr. Benger).

Another was not quite certain whether verdegris was the sulphate of iron or zinc. The examiner kindly gave him three months to consider this matter and others about which he was also a little at sea.

VARIOUS PROPOSALS.

Mr. Young warmly supported Mr. Martindale's proposal that the board ought not to be content with a merely theoretical knowledge of the metrical system of weights and measures, but that candidates should be required to show a practical familiarity in their use. A recommendation to that effect was ultimately passed by the Council, but, to his surprise, the examiners did not see their way to adopt it. If it is reasonable to expect candidates to know anything at all about the metric system, surely that knowledge should have a practical character.

The carbolic-acid question was next discussed, and this was followed by remarks on Mr. Hampson's advocacy of a change in the method of electing annuitants on the Benevolent Fund. The proposal that the committee, and ultimately the Council, should select the annuitants, instead of, as now, selecting a rather larger list of approved candidates, was favoured by Mr. Young, though he admitted the point was debatable.

The Pharmacy Act Amendment Bill, drafted early this year, was explained and defended at length, and the difficulties which a really popular Pharmacy Bill must encounter were expounded.

We all know (Mr. Young said) what a popular Pharmacy Bill would be like. A single clause making it impossible for seven men to do what is illegal in the individual would content the most demanding of our body; and it is not one jot or tittle more that would be fair and reasonable—but it is much more, I fear, than we shall obtain, at any rate for a long time. It is absolutely settled that, under the existing

laws, what we know as company trading is undoubtedly legal. To say that such a ruling is in complete discord with justice and common-sense is only another way of saying that the thing was settled by the House of Lords—nevertheless, settled it is. Possibly our chance will come when that asylum of antique obstruction is improved off the face of the earth.

Before leaving this matter, let me remind you, in justice to some good men now no longer with us, that the Pharmacy Act of 1868 is not what the original promoters wanted and worked for. The Pharmacy Act, 1868, was the compromise forced upon them by a powerful outside opposition. To this unwise opposition we owe the "widows clause," and to the widows clause we owe company trading. This was the vulnerable point in our armour, and this was where we got hit. If a dead chemist may carry on a business by putting a qualified man in charge, why may not a live grocer, or seven of them, do the same? This is just the argument which has been used, and with great effect. If ever a Pharmacy Act is contemplated seriously intended to abolish company trading in poisons, chemists will do well to make up their minds that they will have to relinquish the widow's clause. It could not be reasonably, logically, and honestly be retained, and has already done us an immense amount of harm.

POISONOUS PROPRIETARY MEDICINES.

As to the recent work done by the Pharmaceutical Society in preventing vendors of poisonous medicines, Mr. Young quoted largely from a recent article in THE CHEMIST AND DRUGGIST which said that the contest was practically over, and showing what the exact position now is. He believed that there is still a considerable amount of laxity in respect of labelling certain poisonous medicines, and it is quite within the range of possibility that, before long, action may be taken under the 17th Clause of the Pharmacy Act. It is worthy of note that the requirements as to labelling with the word poison apply to wholesale as well as to retail transactions. All need to be keenly on the alert concerning the sale of poisons. It should never be forgotten that it is the very essence of a chemist's and druggist's business, from a legislative standpoint, and it would be well to realise that, except for that, there would never have been any registration at all, much less anything approaching legislative protection. It is undoubtedly our duty in the interests of the public, as it is distinctly in the interests of chemists themselves, that we should jealously maintain our rights and privileges in this respect, with constancy and vigour.

In conclusion Mr. Young said: "Much—indeed, the greater portion—of the Council business is purely routine in character, and sometimes perhaps, a little monotonous; on the whole, however, the work is distinctly pleasant and interesting. There are sometimes differences of opinion, naturally enough, but we are emphatically respectable; courtesy invariably prevails, and never does the tone of debate degenerate to the level of modern parliamentary rhetoric, or town council oratory. As a new member, full of the mental crudity which comes, I am told, of experience, I have good reason to be grateful for the kindness and forbearance always extended to me. In anticipation of your criticism, let me suggest that it serves no good purpose to rake up mistakes and omissions of a quarter of a century ago, unless indeed it be to learn a lesson therefrom. 'Sufficient unto the day is the evil thereof.' We live in the present, and in the immediate future there is work enough to do and work enough for all. May I say without presumption that the Council can be relied upon to discharge its legitimate share, conscientiously and intelligently."

DISCUSSION.

The PRESIDENT remarked that there was one point in Mr. Young's paper which struck him as going to the root of the thing, and that was the opposition to the Bill that the Pharmaceutical Society drafted this year. The great object of that Bill was to unite the trade more than it was at present, and do away with the bickerings and objections that have done so much harm in the past. The opposition to the Bill, and particularly the opposition of Mr. Harrison, of Sunderland, was a thing he could not understand. The Bill was calculated to do a good work, and if they could only get it passed it would be of great service to them.

Mr. KEMP said he believed that a body of men never existed who had more deeply at heart the welfare of the trade of which they were part and parcel than the present Pharmaceutical Council. He believed that one and all the members were imbued with a desire to do all they could for the trade, but as Mr. Young had pointed out they were restricted in their action by the state of the law. Very much of the apathy which had been laid to their charge had arisen, in his opinion, rather from the apathy from without. Within the last three or four years there had been a very evident awakening not only as far as the Pharmaceutical Society, but the trade at large, was concerned. Anyone who knew anything about the working of the Pharmaceutical Society during the last eighteen months would bear him out in this, that they had worked tooth and nail to enforce the Pharmacy Acts against the illegitimate trader wherever it had been possible, and where the interests of the trade had been assailed in the way Mr. Young had pointed out, by checking the patenting of medicines the Society had also done good service. In regard to the Benevolent Fund, he did not agree with Mr. Young as to changing the mode of election. He also thought the Council made a mistake when they increased the annuity from 40*l.* to 50*l.* He would rather that the amount had been retained at 40*l.*, as in this way they would have been able to add, at least, one more annuitant. With reference to the opposition to the Bill drafted this year by the Pharmaceutical Society, he thought Mr. Harrison, of Sunderland, was only opposed to the Council proceeding with the measure in, as he considered, its unsatisfactory state. That was to say, Mr. Harrison was in accord with any movement having for its object the consolidation of the trade, but thought it useless to proceed with a Bill which did not also tackle some of the more serious defects in the Pharmacy Acts. This was a very important matter. Anything that would lead to the consolidation of the elements of which the trade was at present made up was deserving of their best help and support.

Mr. J. H. HOSEASON said he thought the appointment of professional examiners was a step in the right direction. He believed no man could examine satisfactorily until he had taught a subject. The Preliminary examination was not in accordance with the Minor or the Major, and he thought it ought to contain mathematics, and at the same time a higher knowledge of arithmetic.

Mr. YOUNG having briefly replied, the business-meeting terminated.

The members afterwards indulged in a smoking concert.

CONTENT.

THERE is naught so sweet on this sin-soaked earth
As the sound of the pestle's clang;
And the clink of the lid on the ointment jar,
Or the cork which is loosed with a bang,
Makes my heart feel light as the mother's kiss
To the babe for whose sleep she sang.

I love to wake to the morning light,
And think of my shop so trim;
With the perfume-case and the marble-slab,
And the glass which is never dim;
And I jump as the shop-bell's tinkle comes
Like the call of a seraphim.

Oh men may rave of the grass-green fields,
And the scent of the new-mown hay;
And the golden sheen on the far hill-tops,
Or the silver light in the bay;
But the beam which glints from my gilt-top jar
Is more than a heavenly ray.

So I sing as I yank the restive pill,
Or press out the tincture clear;
I've the bottled smell of the hay and the rose,
And can make my atmosphere;
So why should I yearn for the times that were,
Or brood on a future drear?

W. C.

Personalities.

Mr. R. Wynne Williams, chemist, Dolgelley, has been appointed a justice of the peace for the county of Merionethshire.

We learn from the *American Druggist* that Mr. and Mrs. A. H. Mason, of New York, celebrated their silver wedding on October 7.

Mr. Sidney Harvey, chemist and druggist, Canterbury, Kent, has been appointed by the Canterbury City Council as analyst under the Fertilisers and Feeding Stuffs Act.

Mr. and Mrs. Theodore Bent have left on another exploring journey in Arabia, and they have taken with them a splendid medical equipment in the form of tabloid-cases.

Mr. William Crookes, F.C.S, and Dr. T. E. Thorpe, of Somerset House, are the only chemists on the new Council of the Royal Society. Lord Kelvin is to be reappointed President.

Mr. Horace J. Heyhoe, chemist and druggist, Woodstock, was re urned as a Councillor of the Borough at the top of the poll at the Municipal Election on November 1. This was his first attempt.

Mr. Wm. James Barnes, chemist and druggist, 54 Beggin Street, Dover, and Mr. Bottle, pharmaceutical chemist, Townwall Street, Dover, have been appointed visiting justices for the Borough of Dover under the Lunacy Act.

It is reported that the late Professor Josiah P. Cooke, the American scientist, would have left $100,000 to Harvard University had he not taken offence at something years ago. The $100,000 was but part of the fortune he had made out of science.

Dr. William Jay Schieffelin, the junior member of the firm of W. H. Schieffelin & Co., is a prominent figure in New York society, and his wife is a daughter of the late Colonel Elliott F. Shepard, and grand-daughter to Mr. Vanderbilt. Dr. Schieffelin is a graduate of the University of Göttingen, and an active business man.

Dr. Edward Frankland is to be the recipient of the Copley medal this year "for his eminent services to theoretical chemistry," while Professor Dewar is to receive the Davy medal "for his researches on the properties of matter at extremely low temperatures." Professor Victor Horsley's connection with the treatment of myxœdema is recognised by the presentation to him of a Royal medal "for his important investigations relating to the physiology of the nervous system and of the thyroid gland, and to their applications to the treatment of disease." These awards are made by the Royal Society with the sanction of the Queen.

A Caution.—Mr. E. Haynes informs us that he lately advertised a business for sale in Praed Street, W., in this journal, and that among the responses was one from a good-looking young man about 5 feet 9 inches in height, very dark curly hair and curled moustache, with much *sangfroid*. An agreement was made that he should be at the business for a fortnight and receive salary, in order to see what it was like and with a view to purchase. He appears to have got into debt with the tradesmen in the neighbourhood, using Mr. Haynes's stamp on his orders, and ultimately went away from his lodgings without paying his landlady. Mr. Haynes shows us a letter from which it appears that the same person had carried on very similar proceedings at St. Leonards.

Colonel Chesebrough, of the Chesebrough Manufacturing Company, was a candidate for Congress in the twelfth New York congressional district at the general election held on November 6. The Colonel, who made an active personal campaign, was defeated by 800 votes out of 20,000. An interesting feature of his campaign was the appearance of a book of verses from the Colonel's pen in the hands of a campaign orator who endeavoured to read some of them in one of the "tough" sections where poetry is not appreciated. According to a local newspaper the orator escaped with his life, though the Colonel's chances were ruined in that section. The poems were published a long while since, and how they got into the orator's hands is somewhat of a mystery, as they were not sent out from Colonel Chesebrough's headquarters.

The *Moseley and King's Heath Journal* for November (published at 53 Alcester Road, Moseley, Birmingham), contains an excellent portrait of Mr. Thomas Barclay, J.P., and an appreciative notice of his career in connection with municipal affairs in Birmingham. We regret to note that Mr. Barclay is resigning his seat in the City Council through ill-health. He has been an active member of the Council, especially in connection with the New Water Supply, and also on the Technical School Committee. Mr. Barclay has also been a prominent member of the School Board, and an energetic worker in the Wesleyan-Methodist denomination. He was born at Sunderland in 1839, and was apprenticed to Messrs. Mawson & Swan, Newcastle-on-Tyne. He joined Messrs. Southall as representative in 1861, and became a partner in the firm in 1886.

Mr. G. Claridge Druce, M.A, pharmaceutical chemist, Oxford, is well known to botanists as one of the most painstaking collectors of this generation. His "Flora of Oxford" is not the least of his achievements, for he has made a thorough study of Ross-shire from the botanical aspect, and the results of his labours have been embodied in a communication to the Botanical Society of Edinburgh. The communication is in the form of a monograph occupying 60 pages of the Society's "Transactions." It comprises a bibliographic summary from the first observations by Lightfoot in "Flora Scotica" (1777) to the current work by Mr. F. Janson Hanbury on *Hieracia*, with an epitome of all the plants which have been found in the county. The latter section comprises many hundred plants, and most of them have first been recorded by Mr. Druce, who could not be more enthusiastic about Ross-shire and its flora if his name had been spelt with a *B*.

Mr Edward Evans, jun. (of Evans, Sons & Co., Liverpool), has been elected Chairman of the General Committee of the National Liberal Federation, a choice which is heartily welcomed by earnest Liberals in London as well as in the North. The *Star*, referring to this election, says:—"Mr. Edward Evans, jun., who succeeds Mr Schnadhorst as chairman of the General Committee of the National Liberal Federation, is 48 years of age, and has been the leader of the Liberal party in Liverpool for over a decade. He accepted the leadership when the Liberal party in the city on the Mersey was in a hopeless condition, but he reduced electioneering organisation to a science, and it was greatly due to his magnificent leadership that two years ago the Liberals secured a majority in the City Council for the first time within half a century. In celebration of this triumph the Liberals entertained him to a banquet, and presented him and Mrs. Evans with an elaborate service of plate. Mr. Evans had the rare distinction of being on intimate terms with Mr. Parnell. After the historical interview with Mr. Gladstone, Mr. Parnell went to the beautiful home of Mr. Evans, Spital Old Hall, near Birkenhead, and through the night they discussed Home Rule, and the Irish leader made the famous declaration that he was more than satisfied with the assurance which he had just received from the Liberal leader. Mr. Evans has also entertained Mr. Gladstone and nearly all the leaders of the Liberal party. For many years he has been a regular speaker at the meetings of the National Liberal Federation. He is a perfect master of organisation, a man of indomitable will, iron nerve, and unflinching courage, but possessing a genial temperament, which makes him exceedingly popular with all parties. More than one safe seat has been offered to the new organiser-in-chief, but, like his great predecessor, he preferred to fight the Liberal battle out of the House of Commons. He is one of the senior partners of the firm of Messrs. Evans, Sons & Co., of London, Liverpool, and Montreal, one of the largest firms of manufacturing chemists in the world. He is a Radical of a third and fourth generation, his father being Mr. Edward Evans, J.P., President of the East Denbighshire Liberal Association."

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Editorial Comments

CHEMISTS' CHARGES.

Newspaper-readers in Nottingham are having exceptional opportunities of learning the mysteries of the pharmaceutical craft. Only last year the British Pharmaceutical Conference visited their town for the second time, and the local reporters made gallant efforts to inform the population what they had been talking about. The Nottingham Association of Chemists and Druggists offer educational facilities beyond those available in almost all other towns in the kingdom, and the members of the trade dine together there with quite unusual frequency, though we do not wish it to be understood that they are at all in the habit of indiscreetly revealing the secrets of their profession at or after these festivities. Still, they have clearly made themselves of interest to their neighbours, so that when, some ten days ago, one Bernard Cox launched in the *Nottingham Daily Guardian* a complaint of chemists' charges the subject was taken up both by the public and the trade with extraordinary avidity. The discussion has been raging ever since, with what effect on the normal Nottingham mind we are not able to say. To our prejudiced intellect it appears as if the chemists have held their position with fair success, but it is peculiarly difficult to get general readers to fairly appreciate the chemists' position in regard to prices for dispensing.

Bernard Cox's case was that he had had a prescription dispensed eight times by six different chemists, and that he paid for his medicine respectively 2*s.* 6*d*, 2*s.* 3*d.*, 1*s.* 6*d.*, 1*s.* 9*d.*, 2*s.*, 2*s.* 6*d*, 1*s.* 2*d*, 1*s.* 2*d.* A perfectly disinterested wholesale chemist next informed him that the absolute and actual cost of the drugs was 1*s.* 4*d.*, and allowing 1*d.* for bottle, wrapping, cork, and seal, it could not be made up under 1*s.* 5*d.* Bernard was naturally puzzled, and expressed the opinion that it was high time stricter look-out was exercised by the Somerset House authorities with regard to the genuineness of chemicals used in doctors' prescriptions.

It was hardly fair to saddle Somerset House with the discrepancy. Two chemists—Mr. Agar, of Mansfield, and Mr. Perks, of Beeston—promptly replied to the complaint, asking for particulars of the prescription. Mr. Perks showed how

easily discrepancies might occur by instancing Fellows's syrup of hypophosphites, which costs 4½*d.* per oz., while a similar syrup (not Fellows's make) can be obtained at 1½*d.*; and salicylate of sodium, a drug largely used, which varies in price from 4*d.* to 3*s.* 6*d* per oz. Next day several more druggists plunged into the discussion, and Mr. Cox gave his prescription, "Englished" as he called it—and a typical specimen of dog-English, too. This was how it read:—

Salicylate soda, pure	6 dr.
Fluid extract of bark	½ oz.
Iodine of potash..	3 dr.
Sulphate of magnesia	½ oz.
Spirits of ammonia	½ „
Water of chloroform	8 „

A dessertspoonful for a dose.

Also—

Compound camphor	2 oz.
Belladonna liniment	3 „

The prescription happened to be one in respect of which chemists could quite easily defend themselves. Mr. Perks immediately replied, showing that if made up with the natural salicylate the actual cost of the medicine to the chemist would amount to 3*s.* 3*d.*; if made with the physiologically pure artificial salt it would cost 1*s.* 4*d.*; or if the ordinary quality were employed it would cost 11*d.* The liniment he also showed might cost 1*s.* or 5*d.*, according to whether the components were made with rectified or methylated spirit. Many other chemists also wrote to a similar effect, and Mr. Jesse Boot was allowed to take advantage of the opportunity to show the good people of Nottingham the benefits of getting their physic at his establishments. Then the editor of the *Guardian* had his say. He intimated that he did not like drugs, but when he must have them he wanted the best he could get. But these letters from chemists had evidently frightened him. Could he trust even the dearest of them? "If it be true," he asked—"and our correspondents are agreed upon the point—that two, three, and even four qualities of all the chief drugs in common use are on the market at the same time, and that these different qualities are dispensed indiscriminately, and often without much reference to price, it follows that no one can be quite sure that the medicine he is taking is likely to produce the effect expected of it."

We sympathise a good deal with the perplexed editor, who, no doubt, expresses a very general opinion, and regret that we cannot give him any absolutely exact method of assuring himself. He can only proceed on the principle he has to adopt when he employs a lawyer, a doctor, a plumber, a reporter, or anybody whose sphere of work is outside his own. He must first find a trustworthy man, and then he must trust him. A dishonest chemist can, perhaps, for a time at all events, make an extra half-sovereign a week by substitutions and inaccurate work. He will ruin himself in the end most likely. But trustworthiness, competence, skill, and conscientious care have to be paid for at a fair rate. It is for the public to decide—and they will have to do so pretty soon—whether it is worth their while to retain men with these qualifications as pharmacists, or whether they are going to be content in the future to higgle over their medicines as they would over a lot of second-hand furniture at an auction.

THE 'GRAPH PATENT.

Few patents have given chemists and druggists, and stationers so much trouble as the one familiarly known as the 'Graph patent. The 'graph is such a familiar object, and the process of making it so simple, that people came to think it was common property, the consequence being that many not only made the composition for private use, but put it up in quantities for sale. Then it was that a military-looking gentleman would call, and convince the innocent retailer that letters patent covered the 'graph, whereupon compensation varying from 10*l.* to 100*l.* was demanded. This has been going on for a dozen years, and we have never heard of any retailer who had the courage to dispute the Colonel's claims. We are glad to inform the trade that they can now breathe 'graphically with freedom. The patent expired on Tuesday last. It was granted on November 13, 1878, to Kwaysser and Husak, through their English agent, Mr. J. G. Wilson, of Manchester and London, for a glycerine and gelatine composition, and inks made according to the subjoined formulæ:—

The Copying-pad.

Gelatine	1 part
Glycerine	4 parts
Water	2 „

All the ingredients to be weighed and a solution made of them *secundum artem.*

The Inks.

(1)	Methyl violet	1 part
	Water	7 parts
	Alcohol	1 part
(2)	Rosaniline	2 parts
	Water	10 „
	Alcohol	1 part

In each case dissolve the solid in the mixed liquids, taken by weight.

While the application for a patent covering this invention was pending other provisional specifications for similar devices were lodged at the Patent Office. Thus a Mr. Astor Kissam made a pad consisting of—

	Grammes.
Leipsic printer's roller-composition (hard) ..	145
„ „ „ (soft) ..	380
Glycerine	250
Zinc white	30·5
Spirit	20
Mirbane oil	2

An aniline ink was to be used with this, but provisional protection only was granted, and the patent given to the prior deposit. A composition of Mr. P. G. Rosefeld's, substantially of the same nature, suffered a similar fate, but Mr. J. W. Parkin succeeded in getting a patent (No. 2,864, July 14, 1879) for paper or calico coated with a mixture of glycerine (six parts) and glue (one part). This production has been sold as "hectograph sheets," and as far as we are aware the patent is still in force. At present, therefore, what chemists may do is to make and retail the composition according to Kwaysser and Husak's patent.

GERMAN CHEMICO-PHARMACEUTICAL PROFITS.

The Association for the Protection of German Chemical Industrial Interests has recently held its seventeenth annual general meeting. On the occasion of these yearly gatherings the secretary of the Association, Mr. Otto Wenzel, is accustomed to submit a report reviewing in detail the condition of the chemical industry in Germany during the past year; and containing valuable tabulated information concerning the comparative prosperity of this important branch of manufacture. From Mr. Wenzel's last statement it would seem as if, speaking broadly, the year 1893 had been a favourable one for the German chemical trade. Unfortunately the data from which Mr. Wenzel draws his conclusions, though reliable so far as they go, are hardly numerous enough to enable us to construct an accurate survey of the

whole field of the industry to which they belong. For the only material from which Mr. Wenzel constructs his statistical bricks are the balance-sheet returns, compulsorily published by the limited companies of chemical manufacturers. Private firms, which still form the great majority of the chemical indnstry, do not make returns, and, as Mr. Wenzel himself acknowledges, it is impossible to measure their profits by the same standard as those of their corporate competitors, because, as a rule, the private businesses work upon a mnch smaller scale than the companies. Another reason why comparison is inadmissible, we take it, lies in the fact that nearly all the patent processes which are notoriously gainfnl are worked by companies, and swell their average percentage of profits to a much higher figure than private concerns would have to show in case they were obliged to publish similar returns.

Mr. Wenzel has used the returns of ninety-one companies in the compilation of his figures. These companies work with an aggregate paid-up capital of 220,666,200m., on which in 1893 they distributed in dividend the sum of 29,096,170m., eqnal to an average of 13·18 per cent. But here Mr. Wenzel once more cautions us against drawing conclusions rashly. The percentage named, he states, by no means represents the actual measure of profitableness of the works, inasmuch as several values outside the actnal paid-up capital have assisted in its production, and of these no account has here been taken. If, to give only one instance, the capital represented by the debentures of the factories were added to the paid-up share capital, the percentage of profit would be redneed from 13·18 to 12·08. In spite of these incompletenesses, Mr. Wenzel's statistics are considered very valuable, especially as affording a means of estimating with tolerable accuracy the progress, if not of the whole industry, at any rate of an important section. The average dividend of the German chemical joint-stock works since 1882 has been as follows:—

Year	1882	1883	1884	1885	1886	1887
Per cent.	12·82	10·02	7·96	6 37	7·17	8·91
Year	1888	1889	1890	1891	1892	1893
Per cent.	9·78	10·58	12·81	11 29	11·92	13·18

By selecting from these joint-stock works those especially connected with the preparation of technical, photographic, and pharmacentical chemicals, and averaging their dividends, the following figures are obtained:—

Year	1884	1885	1886	1887	1888
Per cent.	11·30	12·81	13·95	16·52	12·71
Year	1889	1890	1891	1892	1893
Per cent.	11·31	13·21	9·02	13·39	13·92

Upon comparing the two sets of figures printed above, it will be observed that the margin of profit on pharmaceutical and technical chemicals is considerably in excess of that on chemical prodncts as a whole, and also that the branch yielding the greatest possibility of gain is the one most liable to sudden depressions, snch, for instance, as in 1891, when the relative position of profitableness between the branch and the entire body of the indnstry was actually reversed. A careful examination of the reports of all the companies concerned wonld, no doubt, reveal the canse of this apparently capricious divergence of figures, bnt into these details Mr. Wenzel's report does not enter, although it points ont that the improvement of 1893 over 1892 has been effected in spite of the falling silver-valne, which is an important factor in a branch of indnstry largely dependent upon the export trade. After their trading in 1892, twenty-three companies out of the total nnmber nnder review were nnable to declare a dividend; after 1893 only thirteen fonnd themselves in this nnpleasant condition. On the other hand, the number of factories paying more than 7·5 per cent. of dividend advanced from forty-three in 1892 to fifty-one in 1893.

The following are the detailed figures for the two years:—

Dividend per cent.	None	Under 2½	2½ to 5	5 to 7½	7½ to 10	10 to 15	Over 15
Number of factories—							
1892	23	1	10	12	19	11	13
1893	13	1	17	9	21	14	16
Percentage of total—							
1892	25·84	1·12	11·24	13·48	21·35	12·36	14·01
1893	14·28	1·10	18·68	9·89	23·09	15·33	17·58

The total number of works considered in 1892 was 89; in 1893, 91.

Mr. Wenzel's conclusions are, on the whole, enconraging for the German manufacturers; but it must be borne in mind that the materials at his disposal are admittedly defective. The Ptolemæan geographers, though able to calculate latitudes with surprising exactness, failed, for want of the requisite instruments, in accnrately fixing longitnde, with the resnlt that their maps are incorrect in every detail, thongh by no means useless for general purposes; and in the same way, if we would try to draw a picture of the condition of German chemical-industry as a whole from Mr. Wenzel's statistics, we should only obtain an out-of-focns and distorted image. But the facts which he supplies are well worth looking at. They are serious enough to British manufacturers. A good part, at any rate, of the 1,500,000*l.* worth of dividends poured into German pockets last year might have gone to enrich onr own chemical-indnstry, had we been far-seeing enongh to spend in patient teaching and experimenting the money which German authorities and manufactnrers have devoted ungrudgingly to the improvement of their factories and teaching establishments.

OXFORDGEN.

Under this nickname a French comic paper gibes at the new element announced by Lord Rayleigh and Professor Ramsey at the meeting of the British Association.

PICTORIAL ADVERTISING.

What is described as the "first exhibition" of a collection of advertisement-posters may now be inspected in the galleries of the Westminster Aqnarium. The collection contains rather over 200 specimens, mostly of French art, though some of the bizarre productions of English artists which have of late infused some originality in the vista of dilapidated colonr-smudges that disfigures most London hoardings are also on show. Apart from the artistic pleasnre which the inspection of the posters affords, advertisers will find it worth while to visit this interesting exhibition from a business point of view. They may get some valnable wrinkles from the posters, although the bulk of these are not directly connected with the drug-business. Jndging, however, from the designs which find favour with French advertisers of pharmaceutical goods, a direct connection between the article advertised and the picture displayed on the hoarding is the last thing necessary.

DIPHTHERITIC ANTITOXIN.

The *Therapist* published to-day contains an interesting acconnt of the growth and present position of the antitoxin treatment of diphtheria, and we are glad to note that the article brings out clearly the exact position of the matter as it stands at present. To put it briefly it is this:—There are two methods of treatment—first, the older method, in which the serum of the blood of immunised horses is actnally used as the injection; second, the true antitoxin treatment devised by Dr. Aronson (who is working in association with

Scherings' chemical-works), and which consists in the separation of the diphtheria antitoxin from the serum, and the exhibition of this active principle as an aseptic solution of definite strength. We confess to a certain degree of abhorrence of the first method. It is crude and nasty. If there be any real principle in such methods of treatment, it undoubtedly depends upon the presence in the culture-medium of some chemical substance produced through the influence of the specific microbe of the disease. This is the point which Aronson has determined so far as diphtheria is concerned, and, apparently, with the happiest results; for while Roux, by the serum injections, has reduced the mortality in the Paris Children's Hospital from 50 to 25 per cent, Aronson shows that the antitoxin treatment in Berlin, Prague, and Gratz has reduced the mortality to 12 per cent. It may be further mentioned in regard to antitoxin that about a year ago Scherings' agents took the first stages in patenting Aronson's preparation in this country, and we understand that the matter is proceeding. The *Therapist* states that "the cure of a patient by Dr. Aronson's antitoxin will not average more than 1*s.* 6*d.* to 2*s.*" The *British Medical Journal* states that the immediate result of Sir Joseph Lister's appeal for funds to enable the British Institute of Preventive Medicine to carry on the preparation of diphtheria serum is subscriptions amounting to less than 500*l.*, but 2,000*l.* more is wanted. As the Institute is to charge 1*s.* 6*d.* a dose for its serum it does not seem that there is any advantage in subsidising the concern in this way, while it is decidedly bad economics from the commercial point of view. We are not surprised to notice that the *Lancet* condemns Sir Joseph Lister's appeal.

PHARMACY FABLES.

IV.

THE tribe of the chemelopards, of which mention has been made, had other peculiarities than that already told. In fact, their tribal affairs were as complex as those of men, and in such things as their division into contending sections to strive against each other for the common good they were most human. For instance, there was one division of the tribe that accounted itself more far-sighted than the rest. The members of this sect paid much attention to the sleekness of their fur and the constant brushing of their tails, and to the manner of their deportment in the open places of the forest, and so considered themselves superior to the common herd. Moreover, the sight of the red fangs and blood stained claws of some of the tribe pained their æsthetic sense, and they strove to feed on such other denizens of the forest as could be killed without mess, and so often went hungry to their dens. They deplored the methods of such of the tribe as left the beaten tracks and roamed afield in search of fresh quarry.

Now, it happened that, as years passed and the race of the chemelopards multiplied, it overspread the whole of the broad forest so that it became difficult for every beast to find a sufficiency of food. Then it often happened that two or more chemelopards would find themselves stalking the same quarry, and grievous quarrels arose, so that the angry voices of hot disputants aroused the silent echoes. And often, when words failed to convince, hasty blows were struck by the disputants at one another, and most unseemly fights took place, the strong springing upon the weak and forcing them to the earth. Then would they sit upon the heads of the vanquished, and obstruct their view of the beauties of nature.

And these things troubled the superior persons of the tribe, and they met and took counsel together and spake of the strange things that had come to pass. And they called these things "strained relations," for they were almost human in their speech. As a remedy for the evil they proposed to establish a new tribal law to the effect that each chemelopard should have a specified portion of the forest and should only fall upon such prey as passed athwart its muzzle. Nor should any member of the tribe hunt on another's portion of the forest, nor show disrespect to any other member. Also they agreed that offenders against the law should be laid under an interdict and be driven out of the forest. And the sect agreed that the proposal was good and fair, and would be worthy of the honour and prestige of the tribe, and prove a remedy for the unseemly quarrels of the baser sort.

But the greater part of the tribe paid no attention to the golden proposal, and went about its hunting as heretofore, and seized what it could. And the superior order was saddened at the sight, and sought in vain for reasons for the strange action of the general body. And one day, as it sat in very sad and very hungry conclave, it chanced to espy at a distance a fat chemelopard contentedly licking his chops. So it approached this one, where he extended his lazy length among the bones of his last capture, and asked him for help in the solution of the riddle. And the well-fed one turned a drowsy eye on the group, laughed contentedly, and then good-humouredly told how the thing seemed to him.

"Friends," said he, "I admire your purpose from the bottom of my heart. I know ye to be upright beasts, honest seekers after the greatest good of the tribe, and pioneers of the noblest movements among us, but"—and he raised himself from his lethargy and extended a didactic paw—"but ye run after shadows. Ye ignore the fundamental laws of the forest, forget the weaknesses of the chemelopard heart, the yearnings of the chemelopard stomach. Ye fail to remember that every creature in the forest is engaged in a bitter struggle for existence—that every beast is pitted against all the destructive forces of all the world in a life-and-death contest. I, that to-day make a prey of the weak, may to-morrow fall a prey to the strong. Ye that babble of ethics forget that we are furnished with teeth and claws, and that he that hath the strongest teeth and sharpest claws will ever be better fed than he that hath the weakest and bluntest. But forgive me! I detain ye and miss my sleep." And he stretched himself in the sun and slept, and the superior ones departed pondering many things.

MORAL.

Formulators of ethical codes should remember that the whole end and aim of business, as such, is nothing less brutal than bread—with the thickest possible layer of butter.

ARTIFICIAL DIAMONDS.—In the long series of researches made during the past two years by means of his electric furnace, M. Henri Moissan has made a number of experiments on the vaporisation of carbon. He has remarked that carbon passes under ordinary pressure from a solid to a gaseous state without passing through the liquid condition, as is the case with almost all other substances. His experiments show that solid carbon becomes volatilised and afterwards returns to the solid state in the form of graphite. M. Moissan referred to these experiments in connection with his artificial diamonds at the Academy of Sciences last week. He believes that carbon may become liquid under very high pressure. According to him this is how certain diamonds found at the Cape and in Brazil have been formed. They have no apparent crystallisation, but present a round form similar to that of a liquid which has become solidified in a pasty mass.

Legal Reports.

The Medicine-stamp Act.

On November 7 Mr. Jefferson Dodd, chemist, of 70 Tottenham Court Road, 146 Edgware Road, and 123 Judd Street, was summoned before Mr. Hannay, at the Great Marlborough Street Police Court, to answer to seven informations exhibited by order of the Commissioner of Inland Revenue charging him with selling medicines liable to stamp duty without the proper stamps. The medicines were described as "Dodd's female pills," "Dodd's female injection," "Dodd's female corrective," "Dodd's female liver pills," "Dodd's female tincture," "Dodd's universal embrocation," and "Dodd's magic neuralgic elixir." Mr. Alpe appeared for the Commissioner. Defendant appeared in person.

Arthur Woodward, officer of Inland Revenue, proved the purchase of the medicines, unstamped, at different dates at the defendant's shop at 70 Tottenham Court Road. The liability to duty was caused by handbills, wrappers and labels, which, besides holding out the medicines as proprietary, contained recommendations of their efficacy in the treatment of ailments. The prices charged were those usually charged for stamped medicines.

Thomas Gameson, another officer, said he was present at the Marylebone Police Court on February 22, 1894, when defendant was fined 15*l*, in his absence, for the sale of his "Female pills," "Universal embrocation," and "Magic neuralgic elixir" without stamps.

Defendant disputed the liability of the medicines to duty. He had intended to defend the information at Marylebone, and sent his assistant to appear there for him, but the assistant went by mistake to the County Court. He had written to Somerset House to ask why his medicines were considered liable, whilst such preparations as "Asthma cure," "Coleman's mustard oil," and others were allowed to be sold free of duty, but the authorities had not the politeness to reply.

Mr. Hannay: But you don't expect politeness from a taxing authority, do you? (To Mr. Alpe) Have you any correspondence?

Mr. Alpe read the letters.

Mr. Hannay (to defendant): Well, you have had a polite reply. It doesn't go quite to the question you asked, but it explains why these other preparations are not stamped.

Defendant then proceeded to argue that "concentrated mustard oil" could not be an "entire" drug, and on this point the Inland Revenue was wrong.

Mr. Hannay: But how does that help you? As is said by Mr. Alpe, there may be difficult cases in the administration of the Act, but you seem to have brought these medicines within almost every course of liability, and about them there is no doubt.

Defendant called his assistant, who confirmed the statement as to his mistake in going to the County Court. In cross-examination, he said the medicines continued to be sold unstamped notwithstanding the adverse decision in February.

A chemist who was in court volunteered the evidence that he had sold defendant's medicines for some years, and that he thought they were not more liable than the mustard oil. He had sold defendant's medicines—principally the female pills—at his shop for a long time. In cross-examination, he stated that they were always supplied to him stamped.

Defendant: Yes; that is because I don't want to get the retailers into trouble.

Formal proof of the previous conviction having been put in, Mr. Hannay fined the defendant 10*l*. on each of two informations, and 2*l*. 10*s*. on each of the other five, with 14*s*. costs—33*l*. 4*s*. altogether.

Mr. Henry Bishop, chemist and druggist, of 129 High Street, Kingsland, was summoned before Mr. Lane, Q.C., at North London Police Court, on November 14, for selling a proprietary medicine in contravention of the Medicine-stamp Act. Mr. Hawkins prosecuted for the Treasury. The defendant pleaded not guilty.

Mr. Hawkins said: The defendant is a chemist, and holds out by advertisement in his window that he owns a certain quinine-and-iron tonic, and our contention is that the insertion of the word "Bishop's" before the prescription makes it a proprietary medicine, and that Mr. Bishop claims in effect that it is such.

Arthur Woodward, an officer of Inland Revenue, said that on June 7 last he visited the defendant's shop in the High Street, Kingsland. He (witness) observed a notice in the window announcing that "Bishop's Iron-and-Quinine Tonic" was to be had within. He entered the shop and asked for "a bottle of Mr. Bishop's Iron-and-Quinine Tonic." The bottle (produced) was handed to him, and he paid 1*s* for it. He asked the gentleman who sold him the bottle (he could not remember if it was the defendant now before the court), "Is this your own make?" and he replied, "Yes, this is the only one I make." There was no stamp upon the bottle.

Mr. Lane: Was there any label on it?

The Witness: Yes, sir. This label—"Aromatic Iron-and-Quinine Tonic"—with the dose, and the name of the chemist.

Mr. Lane: What do you say to this, Mr. Bishop? What is your defence?

The Defendant: As the bottle is sold it does not require a stamp. I admit I had the tablet in the window, and that it was there sixteen and a half years ago. But some ten or twelve years ago I sent up one of the labels—"Bishop's Iron-and-Quinine Tonic"—to Somerset House, and they told me it was liable to pay stamp-duty. I destroyed all those labels, and had some more printed, as you see—"Aromatic Iron-and-Quinine Tonic: prepared by Henry Bishop." I did not remove the tablet from the window; but had I known that made me liable, I should not have kept it there.

Mr. Lane: The Act says, "By any advertisement or public notice, or by any label or words affixed." The notice in the window says it is "Bishop's Iron-and-Quinine Tonic," and the label on the bottle says it is prepared by Henry Bishop.

The defendant: Yes, I admit that.

Mr. Hawkins: We do not object to this label.

The Defendant: I don't say on the label that it is for the relief or cure of anything of that kind. That tablet has been in the window for sixteen years. It has always been called "Bishop's Iron-and Quinine Tonic." After all these years I thought I might have had some intimation that the tablet was wrong without being summoned in this way. It is not likely that I should have kept it in the window if I thought I was liable. But as soon as I was told I was wrong I removed the tablet

Mr. Lane: The words "aromatic iron and quinine tonic, prepared by Dr. Bishop," on the bottle is not sufficient to bring him within the Act; but "Bishop's iron-and-quinine tonic" would?

Mr. Hawkins: That is so. And by the way in which it is now worded, I take it that he does not claim any proprietary right in it. He acts now, I take it, as the ordinary chemist who prepares a doctor's prescription, and writes on his bottle "Aromatic iron-and-quinine tonic, prepared by Henry Bishop."

Mr. Lane: But I don't know that they do that.

Mr. Hawkins: I think you will very often find it on the bottle of medicine that "This prescription was prepared by" so and so, naming a chemist.

Mr. Lane: But it is a different thing here. He prepares his own prescription as it were. Mr. Bishop prepares and sells "aromatic iron-and quinine tonic, prepared by Henry Bishop."

Mr. Hawkins: But when it is put this way on the bottles it is only as it were carrying out the doctor's instructions.

Mr. Lane: I see no material difference. In one case it is printed "Bishop's iron-and-quinine tonic," and in the other "Iron and quinine tonic," the words "prepared by," &c., written in.

Mr. Hawkins: I won't go so far as to say that he is not liable; but we have not been in the habit of prosecuting people when they labelled this way, because it did not so definitely state the proprietorship.

Mr. Lane: Do you say that iron-and-quinine tonic is a medicine, and that using the name "Bishop's" as a prefix makes it a proprietary medicine?

Mr. Hawkins: The tablet in the window evidently claimed

it as a proprietary medicine, but the label on the bottle did not according to the reading of the Act.

Mr. Lane called the attention of Mr. Hawkins to a reported case where a chemist sold a specific for flatulency without having a stamp attached. In that case there was a conviction. This was not published in the shop.

Mr. Hawkins: No; but a handbill publishing the specific was given to one of the Inland Revenue officers, and it was stated that the particular article was good for the cure of flatulency. Therefore it was a medicine.

Mr. Lane: And in this case he had it in the window, so that it could be read by passers-by—"Bishop's Iron-and-Quinine Tonic"?

Mr. Hawkins: Yes.

Mr. Lane: Do you say this is held out as a proprietary medicine when it is not published by notice or advertisement as a nostrum, or as a specific, or beneficial in the prevention, cure, or relief of any ill? Do you say it is a proprietary medicine?

Mr. Hawkins: Yes.

Mr. Lane: Now, is it held out as a medicine at all?

Mr. Hawkins: I have no doubt about it. It is no doubt placed there as a beneficent mixture.

Mr. Lane: At the same time Mr. Bishop, having his proprietary medicine, long ago wished to make a profit out of it without incurring expense for stamp-duty, and therefore long ago altered his labels. I take it that this tablet is the same as was stuck up in the shop when he altered his labels, and that he inadvertently omitted to have it altered as well.

Mr. Hawkins: So far as the alteration of label went we did not interfere.

Mr. Lane: With the tablet, however, I think you have brought him within the meaning of the Act. This tablet is a public notice; a public advertisement; and in contravention of the Act if no stamp-duty is paid. On the other hand he is, as you say, entitled to sell a proprietary medicine if he does not hold himself out as proprietor. I shall only inflict a nominal fine, because I believe the tablet an oversight—viz., 5*s*. and 2*s* costs, on condition, of course, that he removes the tablet from the window.

Mr. Bishop: Thank you, sir. The tablet was removed from the window on receipt of notification from Somerset House.

Financing Chemical-merchants.

Before the Recorder (Sir Charles Hall, Q.C., M.P.) and a jury in the Lord Mayor's Court on November 12, Mr. Petrus Aganoor, a merchant, sued Mr. Horatio Foster and Mr. Edward Alexander Waterhouse, chemical merchants, to recover 100*l* under a deed. The plaintiff alleged in his statement of the claim that on September 13, 1893, he advanced to the defendants 150*l*. for the purpose of their business, and in consideration of such advance the defendants agreed to repay him the amount in twenty-five years, and in the interval to pay him by way of interest thereon an annual sum equivalent to $\frac{3}{18}$ths of each yearly net profit of the business. Afterwards, on November 29, 1893, it was agreed between the parties that the plaintiff should surrender his right to $\frac{2}{18}$ths of the said net profits, and the defendants, in consideration thereof, agreed to pay the plaintiff 5*l*. for charges incurred (which they did), and four further sums of 25*l*., payable respectively on December 13 and 23, 1893, and on January 15 and February 25, 1894. These instalments had not been paid, and consequently this action was brought. Mr. Lewis Glyn was counsel for the plaintiff; the defendants were unrepresented. The plaintiff gave evidence in support of the statement. He added that since action was brought the defendants' solicitors had written stating that they were no longer acting for the defendants. On this evidence the jury, by direction of the Judge, returned a verdict for the plaintiff for the amount claimed, and judgment was entered accordingly.

Negotiations over the Sale of a Chemist's Business.

On Monday at the Wandsworth County Court before Judge Lushington, Q.C., and a jury, Mr. White, a chemist and druggist, late of Winchester, sought to recover from Mr. Farmer, a chemist and druggist of Spilsby, Lincolnshire, the sum of 15*l*. Mr. Cleur was counsel for plaintiff, and Mr. Thomas appeared for defendant. Mr. Cleur said the action arose over the sale of a business at 106 High Street, Putney, and his client, the plaintiff, agreed to purchase the business, it being represented that the stock and fixtures were worth about 600*l*. Mr. White went into the shop for a day or two and began to look around him. After a couple of days or so he paid 15*l*. as a deposit. He then began to investigate the condition of the shop, and found that the stock and fixtures were not worth more than 150*l*. to 200*l*. His client asked that the stock might be valued, but eventually he repudiated the purchase, and he was instructed that the business was then sold to a man who had been manager there. The advertisement which set forth the premises for sale appeared in The Chemist and Druggist, and was as follows:—

"Putney, established sixty-four years, good prescribing and dispensing business. Price, 600*l*. A small fortune for one well up in extraction and dentistry. Satisfactory reasons given for disposal. Full particulars, C. A. Farmer, Hop Exchange, S.E., or A. C. Farmer, Spilsby, Lincolnshire."

The price agreed between plaintiff and defendant was 565*l*. This amount counsel understood was made up as follows:—Certain furniture, 15*l*., stock and fixtures, 400*l*., and goodwill, 150*l*. In addition the rent was raised to 80*l* a year. They found out that the rent paid by the defendant under his lease was 60*l*., and thus it would appear that the defendant was making 20*l*. a year out of the lease. The following evidence was then taken:—Plaintiff, a chemist and druggist, late of Winchester, said he sold his business in that town in April last. He saw an advertisement in The Chemist and Druggist—that read by his Counsel—on August 4, and in consequence he called at the Hop Exchange. He saw the defendant's brother, and then went to see the business in the High Street, Putney. Subsequently he put himself in communication with the defendant. Having gone over the premises he saw the defendant, and talked over the price with him. Defendant said the rent would be 80*l*. a year, and he would grant plaintiff a lease. The next day he saw the defendant and again discussed the price, eventually agreeing to pay 565*l*., which was to include some furniture, about 15*l*. worth. It was arranged that he should have a trial, and he accordingly went into the shop on August 9, 10, and 11—a Thursday, Friday, and Saturday. On the Saturday morning he paid the defendant the deposit of 15*l*. During the evening, when the customers came in, he found that he had not the goods to sell that they asked for, and these goods included the everyday goods of a chemist's shop. He then examined certain drawers and found them empty, whilst some of the stock was "out of date" and unsalable. Plaintiff stopped the cheque he had given defendant, but afterwards withdrew the stop. He then again went over the stock and found it "very small." In fact, he valued the stock at 150*l*. and the fixtures at 50*l*. Plaintiff left the business on August 17. When he saw the defendant he accused him of misrepresenting the business. Defendant then denied that he said the stock was worth 300*l*. or 400*l*.

Cross-examined: Plaintiff admitted that he ordered goods from wholesale houses for the shop on August 10. Nothing was ever said about the price or goodwill of the business.

Re-examined: When he went to the premises, on November 6, with a Mr. Manners to go over the stock he was refused, the business having changed hands.

By his Honour: He went carefully through the stock as well as he could, and formed an opinion that the stock was not worth 400*l*.

Alfred Manners, of 15 Walbrook, E.C., a valuer and accountant to the drug trade, said when he went to the premises with the plaintiff, they were refused the right to value the stock. He was in the shop about thirty-five minutes, and valued the fixtures, as a going concern, at 80*l*.

Mr. G. W. Pitt, managing clerk to Mr. Montague, solicitor to the plaintiff, said he received all instructions from the plaintiff, and transacted all the correspondence, which eventually led to the lease not being signed.

This was the plaintiff's case.

For the defence the defendant was called. He said he was a chemist, of High Street, Spilsby, Lincolnshire. The business at Putney belonged to his late father. He advertised it for sale. Plaintiff replied to the advertisement, and eventually he (defendant) saw him. After inspecting the premises plaintiff agreed to take it. At no time did he (defendant) ever mention that he valued the stock or fixtures at

400*l*, or any price at all. The amount to be paid was 565*l*., and this was to include "goodwill, &c."

Cross-examined: He was positive no mention was ever made of any price for the stock and fixtures. His rental was 60*l*., on a lease, but he asked more because his father had laid out over 400*l*. in improving the property.

Mr. H. R. Jones, solicitor for the defendant, said he was present at an interview between plaintiff and defendant. It was never mentioned in his presence that the stock and fixtures were worth 400*l*. He (witness) did say that the plaintiff was getting the business for a year's purchase, and very cheap. The business had been sold for an amount equal to 510*l*. to the manager of the shop, who had held this position for over twenty years.

Defendant, recalled by his Honour, said after the plaintiff had refused to complete he called upon him at his lodgings. Plaintiff then alleged that he had been deceived about the stock, when he (defendant) exclaimed, "You are a liar. I never said anything about the stock." He based his price for the business on a year's takings.

Mr. Manners, recalled, said it was not unusual to sell a business on the basis of a year's takings.

Counsel then addressed the jury.

His Honour, in summing up, remarked that the price did not appear a high one, when they considered that the manager gave 510*l*. for it.

The jury, after a few minutes consultation, returned a verdict for the defendant.

His Honour: I agree entirely with you, gentlemen.

Judgment was then entered for the defendant, with costs.

Precipitated Sulphur *v.* Milk of Sulphur.

At the City Police Court, Lincoln, on November 8, Mr. John Frederick Harston, 214 High Street, chemist, was summoned for unlawfully selling, by his assistant, to the prejudice of the purchaser, precipitated sulphur, which was not of the nature, substance, and quality of the article demanded, and which was not pure precipitated sulphur, but a mixture of 42·5 parts sulphur and hydrated sulphate of lime 57·5 parts. Inspector Bradley stated that on October 24 he gave a lad instructions to purchase the article mentioned in the summons. The boy asked for 3 oz. of the drug, and witness afterwards told the assistant it was for analysis. The boy said the assistant served him. He merely said, "I want 3 oz. of that on the paper." The defence was that the article was sold for the ordinary milk of sulphur, and was labelled as such, and that the assistant had made a mistake in not supplying the precipitated sulphur. Fined 15*s*.

Wm. Henry Martin, 1 Melvin Street, drug-stores proprietor, was summoned for a similar offence, the drug containing sulphur 36 64 parts and hydrated sulphate of lime 63·36 parts. The facts were similar to those mentioned in the first case, but the defendant had stated to the purchaser that he had no precipitated sulphur in stock, and he asked whether milk of sulphur would do, and the reply was that it would. The case was dismissed.

Adulterated Olive Oil.

Messrs. Shillingford & Co. were summoned at Guildford Petty Sessions last week for selling adulterated olive oil. P.-C. Chapman stated that he had sent a lad into defendant's shop for a bottle of olive oil. Mr. Vincent, one of the partners, when told it was for analysis, said a mistake had been made, and offered to change it. Mr. W. A. Warlock, the inspector, said the oil was stated by the analyst to be composed principally of mineral or hydrocarbon oil, and was not fit for food. Mr. Goldthorpe, for the defence, said the article was not sold as an article of food. His clients were oilmen, and sold the oil as a lubricator. Pure olive oil cost double the sum paid for this oil. Mr. Piggott, one of the partners, deposed to this, but, in cross-examination, he admitted selling jam, tinned salmon, and vinegar. The Bench inflicted a fine of 5*s*. and costs.

The Sale of Methylated Spirit without a Licence.

At the Luton Borough Police Court, on November 8, Messrs. Blacklock, McArthur & Reed, of Waller Street, Luton, were summoned at the instance of John N. Pentelow, officer of the Inland Revenue, for having sold 2 quarts of methylated spirits, without being authorised by licence to do so, on June 23 last. The defendants were described as manufacturers of methylated finish, but a certificate from the chief analyst of Somerset House showed that a sample taken by the Inland Revenue officer only contained 1·68 oz. of resin to the gallon, instead of 3 oz. as required by law. The summonses were first heard a few weeks ago, when Mr. McArthur asked for an adjournment, in order that a portion of the sample taken by the Inland Revenue officer might be analysed by an independent analyst, it being suggested that there must have been some mistake. Mr. McArthur then said that they did not manufacture the spirit, but purchased it from the manufacturer in wholesale quantities. He produced an invoice stating that the spirit contained 3 oz. of gum shellac to the gallon. Mr. McArthur now admitted the accuracy of the certificate from the Somerset House analyst, and the Bench said they did not think it necessary for the prosecution to go through all the evidence again.

Mr. Bartholomew, supervisor of Inland Revenue, said the prosecution had no animus against Mr. McArthur, but as he had bought the stuff of the manufacturer believing it to be finish, he had his remedy against the party of whom he purchased it. Under those circumstances he asked the Bench to inflict such penalty as would deter others from doing anything of the kind in future.

The Mayor said no doubt the defendants had purchased the finish in good faith, and had sold it in the same condition.

Mr. Bartholomew said if it had been tobacco they could have gone to the manufacturer and seized the whole of his stock, but in the present case they had no remedy against the manufacturer, but the defendants had.

Mr. McArthur said some new facts had come to his knowledge since the case had been adjourned. Similar proceedings had been taken at Cardiff, and one of the magistrates there, who was a chemist, said that in the course of twelve months the finish would undergo some changes. He was going to make experiments to find out if there was anything in that statement. The Cardiff Stipendiary inflicted a fine of 1*s*.

Mr. Bartholomew said he should like to point out that the defendant in that case had to pay costs amounting to 5*l*., but in the present case he only asked for the Court fees.

The Mayor said this was the first case of the kind before them. The magistrates did not think there had been any wilful evasion of the Act, otherwise they should have inflicted a severe penalty, but, taking the whole of the circumstances into consideration, they had decided to inflict a fine of 1*l*. 1*s*., and the defendant would have to pay costs amounting to 5*l*. 1*s*.

Butter-analysis.

An interesting case in regard to the analysis of butter was heard at Nottingham last Saturday. A grocer had been summoned under the Sale of Food and Drugs Act in respect of some butter which he had sold, and which the county analyst, Mr. Otto Hehner, had certified to contain 15 per cent. of margarine. The certificate was disputed, and the Magistrates had referred a sample to Somerset House, but the analysts there said the butter had been kept too long to be properly analysed. Consequently the Magistrates went through the whole of the evidence. Mr. Hehner, who has made the analysis of butter a special study, was cross-examined on his certificate. It appeared that he relied on the percentage of insoluble and volatile fatty acids found in the butter. Of the former he found 90 8 per cent.; of the latter, as taken by the Reichardt test, 10·8. The insoluble acids were above the normal, and the volatile acids below it, which in Mr. Hehner's opinion indicated with certainty adulteration. The average percentage of insoluble acids he said he had found to be 87·5, and the highest ever found 89·4. The average percentage of volatile acids was 13·5, and he believed that in authentic samples it had never been below 11 to 11·5. He was questioned closely as to the possibility of a dairyman having only four or five cows, all of which were nearly at the close of the period of lactation, but he was very decided in his

opinion that it would be practically impossible—a million to one he said—against getting, under the worst circumstances, so abnormally poor a result. For the defence the vendor swore that he sold the butter as he received it from the dairy, and the dairy owner and his housekeeper both swore that no foreign substance had been added to the butter before it left them. Mr. J. P. Coleman, F.I.C., senior demonstrator in chemistry at Nottingham University, said he found 87·2 of insoluble acids and 10 7 of volatile acids. He considered the minimum of the latter in pure butter to be 10 per cent. Dr. Truman, borough analyst, had tested the butter by Mr. Hehner's method for insoluble acids, and had found 87·115. The Magistrates came to the conclusion that the butter had been adulterated, and imposed a fine of 2*l* 2*s*, with costs not to exceed 3*l*. 3*s*. Notice of appeal was given.

Dyed Demerara Sugar.

Those who have the administration of the Sale of Food and Drugs Act have at last obtained a decision of importance in regard to the sale of dyed sugar as Demerara. The case came before the Tunstall Stipendiary last week, the defendant being a grocer, and his offence the sale of 2 lbs. of dyed sugar. Mr. E. W. Jones, the analyst for the district, stated that the sample was highly refined beet sugar, coloured to look like Demerara. It yielded 0·05 per cent. of ash, whereas true Demerara yields from 0 2 to 0·4 per cent. of ash. Mr. C. E. Cassal, of London, corroborated. Several sugar-brokers and other experts gave evidence for the prosecution, and for the defence Mr. E. Davis and Mr. Alfred Smithson, analytical chemists, of Liverpool, and a number of sugar experts gave evidence. Amongst the latter Mr. Albert Hunt, produce-broker, 10 Mincing Lane, London, said that in trade language Demerara sugar was understood to be cane sugar from St. Lucia, Trinidad, and even the Barbadoes, as well as from Demerara. The colour desired by the buyers was obtained by something added to the sugar. Demerara was coloured. The Stipendiary did not, however, take this view. He said the weight of evidence was that Demerara sugar was a pure sugar, without dye. To his mind there was as broad a distinction as possible between the process of clearing sugar by chloride of tin and the other process, which was absolutely adding a colouring matter extraneous to the chemical substances of the sugar, in order to give it a different appearance than it would naturally bear. He inflicted a fine of 40*s*. and costs, amounting to 27*l*. 6*s*. 8*d*.

Far. Lini Sine Oleo.

On November 12, six cases under the Sale of Food and Drugs Act, 1875, in respect to linseed-meal, came before Sheriff Grahame at Perth. The persons charged were Alexander Luke, grocer, Longforgan; John Findlay, grocer, Alyth; William Brown Smith, grocer, Alyth; Margaret McEwan, grocer, St. Fillans; Euphemia Moncur, grocer, Longforgan; and John Winton, manager of the Dunning Co-operative Society. The analyst reported that the linseed-meal had been deprived of a certain percentage of oil.

On Findlay's case being called he stated that he was a law-abiding citizen. Grocers were not supposed to be analysts, and he thought that it was a great hardship to be brought into court in this way. Many of his brethren in the trade, equally innocent, felt the same grievance.

Sheriff Grahame said he was there not to make the law, but to administer it. Ignorance of the law excused nobody. He imposed a fine of 10*s*., or seven days' imprisonment. All the other defendants, except Winton, were similarly treated.

Mr. R. Hunter, solicitor, Perth, appeared for Mr. Winton, and objected to the relevancy of the complaint, in respect that on the facts libelled the case was one of abstraction, which could not be competently charged under section 6, but only under section 9 of the Food and Drugs Act, 1875. The Procurator-Fiscal (Mr. Melville Jameson) withdrew the complaint against Winton.

A Cigarette Agency.

In the Westminster County Court on Wednesday the case of the Spanish Cigarette Company *v.* Welch was tried before his Honour Judge Lumley Smith, Q.C.

The defendant is a chemist and druggist, carrying on business at Eastbank Street, Stockport, and the action was brought by the plaintiffs, a London firm of cigarette-manufacturers, to recover the sum of 8*l*. 5*s*. in respect of a quantity of cigarettes supplied.

The evidence of the plaintiffs' witness went to show that the goods were supplied in the way of trade, but for some reason or other the defendant declined to pay for them.

Mr. Merton, solicitor, appeared for the defence, and said he did not for a moment dispute the order and delivery of the goods, but the defence was that the plaintiffs had been guilty of breach of agreement, which practically resolved itself into misrepresentation and fraud.

The defendant's case was that a written agreement was entered into between himself and the plaintiffs by which he was appointed sole agent for the sale of the plaintiffs' goods in the town of Stockport and ten miles round, and it was agreed that he was to have a commission of 5 per cent on all goods sold. This arrangement had been in force but a very short time, when the defendant discovered that the plaintiffs were supplying the very same goods to another person in the town and allowing him a commission of 50 per cent. The result was that his trade in the goods was practically ruined, and he thereupon refused to pay, and he now sought to recover damages for breach of contract.

His Honour thought it was a case in which the defendant ought to have filed a counterclaim, and he adjourned the case for that purpose.

Bankruptcies and Failures.

Re Joseph Shepherd, 110 Portland Road, formerly of 64 Church Road, Hove, Manager of a Joint Stock Company.

This debtor, for whom Mr. Laidman appeared, came up at the Brighton Bankruptcy Court on Nov. 8 for his adjourned examination, and some further questions were put to him by the Official Receiver. He denied that he had done any betting on his own account, and said the entries "Lanthony" and "Castle Blarney, 4*l*. and a place," must refer to betting which he did for a friend, whose name he could not remember. The examination was closed.

Re Henry Boyce, 16 Jewry Street, E.C. Chemical-Merchant and Agent.

This bankrupt's examination was resumed on Thursday at the London Bankruptcy Court. The facts have been already reported. The examination was concluded.

Re George Bernstein, formerly Bridge Row, Chemical-Merchant.

The adjoured examination of this bankrupt was concluded in the London Bankruptcy Court on Thursday. The debtor asserted that no such sum as 4,000*l*. was due to his wife, and he in fact repudiated her claim.

Re Walter Wright, trading as Baker & Wright, 27 High Street, Chelmsford, Chemist and Druggist.

The debtor appeared for his adjourned public examination before Mr. Registrar Duffield, at the Chelmsford Bankruptcy Court last week. The circumstances have already been fully reported. The examination was concluded.

"I don't see what's the use of my being vaccinated again," said Tommy, baring his arm reluctantly for the doctor. "The human body changes every seven years, Tommy," replied the doctor. "You are eleven years old now. You were in your fourth year when you were vaccinated first, and it has run out." "Well, I was baptized when I was a baby. Has that run out, too?"

Gazette.

PARTNERSHIPS DISSOLVED.

Gossage, F. H., and **Timmis, T. S.,** soap manufacturers, Widnes and Liverpool, under the style of Wm. Gossage & Sons.

THE BANKRUPTCY ACTS, 1883 AND 1890.

Orders made on Application for Discharge.

Laffan, Edward Murray, Stretford, late Egremont and Audlem, Cheshire, doctor of medicine—discharge suspended for two years, ending October 15, 1896.

M'Connal, Alan, Appleby, Westmoreland, chemist—discharge suspended for 18 months, ending February 13, 1896.

Deeds of Arrangement.

The following deeds of arrangement with creditors have been filed at the Bills of Sale Office, under the provisions of the Deeds of Arrangement Act, 1867. Some of these deeds are for the purpose of carrying out compositions with creditors (and such are specified below), but the great majority of them are "assignments" in the ordinary form, to a trustee or trustees, for the benefit of creditors. The Act referred to expressly provides that registration shall not give validity to any deed which is an act of bankruptcy, and there is no provision in the Act making any of these arrangements binding upon dissenting creditors.

Rogers, John, 30 Lightbody Street, Liverpool, and 51 Norwood Grove, West Derby, near Liverpool, and also trading as the Walton Chemical Company and the Stanton Pure Sulphur Company, general broker and sulphur refiner. Trustee, Joseph West, 14 North John Street, Liverpool, accountant. Dated, November 8; filed, November 12. Secured creditors, 2,350*l.*; unsecured liabilities, 3,072*l.* 19*s.* 7*d.*; estimated net assets, 637*l.* 6*s.* The following are scheduled as creditors:—

	£	s.	d.
Chambers, Holder & Co., Liverpool	419	0	0
Cunningham, C. H., Montreal	48	0	0
Hughes, Hugh, Liverpool	25	0	0
Lea & Walthew, Liverpool	50	0	0
Makin & Bancroft, Liverpool	210	0	0
Nickels, Thomas & Co., Liverpool	60	0	0
Robertson, W., Liverpool	1,550	0	0
Thomson, J. B. & Co., Liverpool	180	0	0
Russo, A., & Figli, Catania	110	0	0
Bankers' claims	320	0	0

Kidney, George, 42 Spital Hill, Sheffield, druggist, seedsman, &c., lately trading as Ellis & Co., at Knighton. Scheduled creditors:—

	£	s.	d.
Dicksons (Limited), Chester	38	0	0
Wyleys (Limited), Coventry	23	0	0

WATER-FILTERS.

DR. G. SIMS WOODHEAD, Director of the Research Laboratories of the Conjoint Board of Physicians and Surgeons, and Dr. G. E. Cartwright Wood, B Sc, have, on behalf of the *British Medical Journal*, conducted "an inquiry into the relative efficiency of water-filters in the prevention of infectious disease." The first part of their report has been published, and the results, so far as the efficiency of filters is concerned, are comprised in the following table. Apart from these results the investigators discuss other matters in their report, such as mechanical construction, and the methods which they used. The table, however, contains the matter of chief interest to retailers of filters. In regard to the columns of this table which deal with mechanical details we note that the authors consider the passage of the larger particles of suspended material through a filter as at once placing such filter out of court. In rough preliminary experiments on this point they use the finest gunpowder charcoal, artificial ultramarine in suspension, and milk freely diluted with water. The absence of ultramarine from the filtrate of the spongy-iron filter may very possibly be due to a chemical interaction. The number of crosses in the table indicates in each case the larger or small amount of the substance which appeared in the filtrate.

Name and Type of Filter	Time (in minutes) required for filtration of 1 pint of water	Presence or absence of carbon in filtrate	Presence or absence of ultramarine in filtrate.	Presence or absence of milk in filtrate	Percentage of organisms per c.c. allowed to pass into filtrate
Silicated carbon table-filter (glass)	68	0	++	+++	7½
Silicated carbon Ascension table-filter (glass)	120	0	+	+++	16
Silicated carbon pocket-filter..	Not recorded	0	+(?)	+++	Not recorded
Doulton's pint table-filter (solid block)	27	0	+	+++	20
Doulton's pint table-filter (solid block and granular carbon)	18	0	+	+++	13
Doulton's carbon bottle-filter..	13	0	0(?)	+++	17
" natural porous stone bottle-filter	15	0	0(?)	++	31
Doulton's pocket-filter.. ..	Not recorded	0	+	+++	Not recorded
Maignen's domestic "Filtre Rapide"	4	0	0	++	0(?)*
Maignen's table "Filtre Rapide" (glass)	32	0	0	++	4
Atkins's "Admiralty" filter (No. 1)	5	0	++	+++	20
Atkins's pocket-filter	Not recorded	0	+	+++	Not recorded
Nibestos-filter	6	0	0	++	7½
Fr. Lipscombe & Co., new patent cylinder-filter	23	0	++	+++	60
Fr. Lipscombe & Co., table-filter (solid block)	30	0	+	++	45
Lipscombe Filter Company, table-filter (powdered and granular charcoal)	7	0	++	+++	30
Lipscombe Filter Company, table-filter (solid carbon block)	16	0	+	++	25
Spencer's magnetic domestic filter	9	+	+++	+++	15
Spongy iron table-filter (glass)	14	0	0	+++	6
" " (porcelain)	17	0	0	+++	10
Morris's 2-gallon domestic filter	2½	0	+++	++	12
Cheavin's Idiocathartes domestic filter	¾	+	+++	+++	57½
Crown Filter Company, table-filter (quart)	3	0	+	+++	28
Barstow's table-filter (quart)..	35	0	+	++	27
Alcarazas domestic filter (No. 1)	57	0	0	+	0(?)*
Slack & Brownlow's compressed-charcoal domestic filter	1	0	++	+++	26½
Wittmann's charcoal-vase table-filter	10	0	0	0	0(?)*
Defries & Son's carbon block-glass table-filter	19½	0	++	+++	23
Pasteur-Chamberland filter (single-candle, style F.)	420	0	0	0	0
Berkefeld filter (single-candle, No. 13)	140	0	0	0	0
London Pure Water Company, cistern-filter	Not recorded	+	++	+++	Not recorded
Maignen's field-service "Filtre Rapide," A.M.D.	Not recorded	0	0(?)	++	Not recorded
Silicated carbon syphon-filter, A.M.D..	Not recorded	0(?)	++	+++	Nor recorded
Stoneware filter with sponge-plug, A.M.D.	Not recorded	+	++	+++	Not recorded
Morris's 4-gallon domestic-filter, A.M.D.	Not recorded	0	+	+	Not recorded

* As the number of organisms found in the gelatine plates came within the range of experimental error, a positive result could not be recorded, but when treated with suspensions of the test organisms, all these filters allowed of their direct passage.

The heading of the last column is that used by the authors. We understand it to be "number" (not "percentage") of micro-organisms per c.c. In a later stage of their report the authors show that silicated carbon and Atkins's filters which had been in use for five or six months showed a filtrate containing from 600 to 1,000 micro-organisms per c.c., although the water put into the filters contained from 30 to 50 micro-organisms per c.c.

In connection with the foregoing it is interesting to note that Surgeon-Major Johnston has also made an investigation on "the relative efficiency of certain filters for removing micro-organisms from water." The investigations were made as qualifying work for the degree of D.Sc. at Edinburgh University, and the experiments were carried out in the Public Health Laboratory of the University. The filters examined were Atkins's patent water filter, Maignen's table "Filtre Rapide," the Nordmeyer-Berkefeld filter, and the Pasteur-Chamberland filter. The first two filters are described as useless for sterilising water, both of them not only allowing "micro organisms to pass through the pores," but affording "a suitable nidus for the growth and multiplication of micro-organisms, which are found in much greater numbers in the filtered water than in the unfiltered." Dr. Johnston is of opinion that "the Pasteur Chamberland filter is the best and only one on which reliance can be placed for permanently sterilising water."

CHEMISTS AS MAYORS.

Mr. Conncillor Watson (chemist and druggist) has been unanimously re-elected to the Mayoralty of Beccles.

Mr. Valentine Fowler, the new Mayor of Scarborough, served his apprenticeship with Mr. B. Taylor, chemist and druggist, Leeds.

South Wales has amongst its Mayors three chemists. Mr William Williams, for the second time, has been elected Mayor of Haverfordwest, in which borough he has carried on business for upwards of a quarter of a century. He has been a member of the Corporation for twenty-four years, and is also an Alderman of the Pembrokeshire County Council. For the borough of Pembroke, Mr. J. H. Bowling, chemist and auctioneer, has been elected Mayor. Mr. Roderick Evans, who has been in business in Lampeter for twenty-five years, has been elected Mayor of that borough.

Mr. Alderman A. E. Lloyd, the new Lord Mayor of Manchester, is a member of the firm of Higgin, Lloyd & Co., manufacturing chemists and drysalters, of 22 Little Peter Street, Manchester, has been for fourteen years a member of the City Council, and an alderman since 1892. He has not previously occupied a position which has brought him in a conspicuous way under public notice, but has been content to work quietly in committee. Mr. Lloyd is a Liberal. His election by the City Council to the eminent office he now fills was unanimous.

Mr. Alderman E. Palmer, J.P., the Mayor of Grimsby, was born in that town, in 1834. He was apprenticed with the late Alderman Keetley, of Grimsby, who was himself Mayor

The Mayor of Grimsby.

of the borough in 1853 and 1854. His second son is associated with him in the conduct of the business of E. Palmer & Son. He first entered the Council in 1871, and was made an Alderman in 1891. Mr. Palmer is a politician of decided Conservative views.

Mr. E. S. Wootton, chemist, Margate, who has just completed his year of mayoralty of the borough, has been unanimously re-elected Mayor of Margate, and as an Alderman, by the newly-elected Council.

Mr. Alderman McKay, who has been elected the five hundred and fifth Lord Mayor of York, has been for twenty-eight years the principal agent in the North of England for MacDougall Brothers, manufacturing chemists, of London and Manchester, and for twenty years has served Messrs. William Gossage & Sons, soap-manufacturers, as their chief representative. He was first elected on the Council in 1883, and was elected an Alderman in 1889. He is an active supporter of the Liberal party in York. For ten years he was honorary secretary to the Liberal Club, and for some time was chairman of the Committee of Management.

Mr. Alderman W. Gowen Cross, who has been chosen Mayor of Shrewsbury, is well known to all pharmacists who take an interest in the affairs of their trade. Mr. Cross was President of the Chemists' and Druggists' Trade Association from 1882 to 1885, and has been on the Pharmaceutical Council since that date, and for the past three years has occupied the vice-chair. Locally he has filled a number of

The Mayor of Shrewsbury.

public offices. He has been a member of the Town Council almost continuously since 1881. He was re-elected in 1884, but in 1887 he was defeated by four votes. In the following year, however, while out of the Council, he was elected to the Aldermanic bench, and was re-elected Alderman in 1892. In 1888 he was elected a Charity Commissioner, and four or five years ago his name was placed on the borough roll of magistrates. He is also a churchwarden.

Phosphorus.—There are at least three modifications of phosphorus: (1) ordinary octahedral or stick, or B P. phosphorus, sp. gr. 1·823 at 20° C., ignition-point 60° C.; (2) amorphous or red phosphorus, sp. gr. 1 964 at 10° C., ignition-point 250° to 260° C.; and (3) crystalline metallic phosphorus in violet-black rhomboidal crystals, sp. gr. 2 310 at 15·5° C.

The Education of Vestrymen.—We take the following from the *South Wales Daily News*:—In a recent discussion on sanitary matters a vestryman talked about "tubular diseases" and "tripod fever," and he wanted a "crematoria" in every parish. Another member would not accept a statement on the "hipset dixter" of the chairman. At the same vestry a member declared the chairman ought to be "like Potiphar's wife, above suspicion." When it was proposed to give a deserving official "an honorarium" a member wanted to know whether it would not be an inducement to the official to waste his time. "If he attends to his duty he won't have much time to play the honorarium."

Trade Report.

Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide.

42 CANNON STREET, E.C., *November* 15.

The London Cinchona-auctions.

Before the commencement of Tuesday's bark auctions Mr. David Howard proposed that the public sales of cinchona-bark in London be held, in 1895, on the twelve dates specified below. He thought that these dates would be the most convenient ones because they were chosen so as to fall, as far as possible, midway between the Amsterdam auctions. At present it happened occasionally that a heavy cinchona-auction look place in Holland within three days of a London sale, with the result that the market was temporarily overfilled, whereby both trading centres were injured. The dates mentioned by him were only thrown out tentatively, and any suggestions on the subject sent to him before the next (December) sales would be welcome. Mr. W. W. Green observed that the Produce Brokers' Association were considering the whole question of the bark-sales, and that the brokers intended to confer with their principals on the subject. Subsequently Mr. A. Devitt (Lewis & Peat) remarked that the dates suggested by Mr. Howard would suit his firm very well. The proposed bark-auction days in London and the dates already fixed by the Amsterdam cinchona-trade for 1895 are as follows:—

London		Amsterdam	
Jan. 8	July 23	Jan. 24	July 18
Feb. 19	Aug. 20	Feb. 28	Aug. 29
March 19	Sept. 17	March —	Sept. —
April 30	Oct. 15	April 4	Oct. 3
May 28	Nov. 12	May 9	Nov. 7
June 25	Dec. 10	June 13	Dec. 12

The Liverpool Market.

Our Liverpool correspondent, writing on November 13, says that the scarcity in *Gum acacia* continues and business is restricted in consequence to small parcels, which are fetching extreme prices, 65*s.* per cwt. being paid for fair Turkey sorts. *Chilian anise* is quiet at late rates. *African ginger* is in better demand: 10 tons prime root selling at 35*s.* *Scammony-root* is steady, 30 bags just imported realising 22*s.* 6*d.* per cwt. *Castor-oil*, owing to arrivals from Madras, is easier, the price for this grade being 2*d.* per lb., and of Calcutta good seconds $2\frac{1}{8}$*d.* to $2\frac{3}{16}$*d.* French first pressure, $2\frac{1}{8}$*d.* per lb. *Beeswax* continues to maintain a very firm position, 80 packages fair San Domingo at auction fetching 7*l* to 7*l.* 1*s.* 3*d.* per cwt. *Chilian* and *African* are very firmly held and stocks are exceedingly small. *Canary-seed* is regaining its position. Turkish has sold at 51*s.* per quarter, and Spanish at 56*s.* per quarter. *Tonca-beans* (*Pará*) are selling freely and holders are not now willing sellers at late rates. Values range from 8*d.* to 2*s.* per lb. *Cream of Tartar* is quiet at 68*s.* to 69*s.* per cwt. for first white crystals. *Guinea-grains* are slow, and small sales have been made at 17*s.* per cwt. *Kola-nuts* are firmly held at 1*s.* $3\frac{1}{2}$*d.* per lb., but buyers show less inclination to operate, and several parcels in auction have been withdrawn. For three bales good *Jaborandi-leaves* 6*d.* was bid in auction and refused; the holders talk of 9*d.* per lb.

The New York Drug-market.

Our New York correspondent's advices, under date of November 7, read as follows:—The fact that Congressional elections are being held to-day in some thirty odd States, while local elections are also being held in the majority of the States, has a very depressing influence on business. Never before have business-men paid so much attention to any election (apart from a Presidential one) as to the present contest. This unusual interest arises partly from the fact that this is the first general Congressional election which has occurred since the enactment of the new tariff law, and the result of this election will in some sort be a test of the public approval, or disapproval, of that measure. The expected return of the Republican party to power will not mean an immediate change back to the high protective tariff of the McKinley Act, for the leaders seem agreed that it would be impolitic again to unsettle the commerce of the country by any material tariff changes. Besides, the Democratic President will remain in power for two years longer, and would probably veto any high tariff legislation, which could only be carried over his veto by a two-thirds majority, which the Republicans are not likely to have. Practically no important business has been transacted since Friday on account of the election. Huanoco *Coca-leaves* sold last week at 32c., at which the market is very firm, the visible supplies being light. *Balsam tolu* sold in a small way at 26c., though 27c. is the general asking price. *Mexican vanilla-beans* are in good demand, and the limited supplies in sight make the small inquiries that do come in more noticed. The stock in importers' hands has been reckoned as not above 175 cases, while, so far as can be learned, there are practically no stocks in Mexico. The new crop will not reach here until next May. If reports as to stocks in Mexico are to be trusted the situation is decidedly bullish. Jobbing sales of *Angostura Tonca-beans* continue at $1.63 for fair to good frosted. Importers claim to have only light supplies of *Balsam copaiba* on hand, but there is no disposition towards an advance shown; for Angostura 34c. to 35c. is accepted. Nothing of interest has transpired in peppermint oil, which rules at about $2.25 for H.G.H. *Mexican sarsaparilla* is unchanged at 6c. to $6\frac{1}{4}$c. from importers' hands, and $6\frac{1}{2}$c. to $6\frac{3}{4}$c. from jobbers'. *Jalap* is selling freely, but not in large lots, at 23c. to 26c.

Acid (Carbolic).—A slow market, with declining tendency. *Crystals* are obtainable at from $5\frac{1}{2}$*d* per lb. for 39°–40°, and at $4\frac{7}{8}$*d.* to 5*d.* per lb. for 34°–35°. *Liquid*, 1*s.* to 1*s.* 1*d.* per gallon for cresylic. 1*s.* $5\frac{1}{2}$*d.* to 1*s* 6*d.* per gallon for crude 60-per-cent., and 1*s* $9\frac{1}{2}$*d.* per gallon for 75-per-cent.

Aloes.—Good bright *Socotrine* aloes remains very scarce; commoner grades are more plentiful, but there is no demand for these. Privately, 70*s.* to 72*s.* 6*d.* per cwt. has lately been paid for good bright. Of *Cape* aloes 91 cases have arrived during the week.

Asafœtida firmly held, and wanted. Privately, higher rates have been paid. There have just been some arrivals, but they may not be ready for sale next Thursday.

Balsam (Peru).—Steady, at 6*s.* 6*d.* per lb. for good quality.

Balsam (Tolu).—Rather firmer. In America prices have advanced, and in sympathy with this rise our holders have put up their quotation to 1*s.* 2*d.* per lb. for good quality. Up to the present, however, buyers have not responded to the advance.

Borax.—Unchanged. The combination-price remains 20*l.* per ton for crystals, or 21*l.* per ton for powder.

Caffeine.—Still rising. In the course of the week from 17*s.* to 18*s.* 6*d.* per lb. has been paid for small second-hand lots, and at to-day 19*s.* per lb. is asked. The demand is mostly for France and the States, and for these countries sales are reported at higher prices than have been paid for use in this country. Exporters are besieged with instructions to ship as much as they can get at once, but supplies are only coming in from the makers in small quantities, and slowly. A few small parcels of foreign-made caffeine have been sold lately at about 2*s.* per lb. below the price of English.

Camphor (Crude).—According to official statistics, the steamship *Bellona*, which was lost off the Chinese coast, carried 508 boxes of camphor from Canton and Hong-Kong. There is nothing doing in the London market at present, but quotations are steady.

CAMPHOR (REFINED).—Market weak, in spite of the fact that the position of crude camphor has been well maintained in the course of the last few days. *Foreign* is still quoted at 1*s.* 4½*d.*, *English* at 1*s.* 5½*d.* per lb. in ½-ton lots.

CANTHARIDES.—Slow of sale. *Russian* flies are offering at 2*s.* 10*d.* per lb., c.i.f. terms.

CASCARA SAGRADA.—Good thin bark offers on the spot at 22*s.* per cwt. There are still sellers of fair quality at the rate of 17*s.* 6*d.*, c.i.f. terms, sailing vessel from San Francisco, but no further buyers can be found for that position.

CASSIA FISTULA.—There has recently been an arrival of 1,300 packages of *East Indian cassia fistula* in Holland, but the whole of this is reported to be firmly held at high prices, the equivalent of 20*s.* per cwt., local terms, having already been paid for a portion of the shipment.

CASTORUM.—The Hudson's Bay Company's winter sale will be held on December 12, when 1,333 lbs. will be offered, divided as follows:—N.W., 35 lbs.; Canada, 508 lbs.; E.M., M.R., &c., 368 lbs; and Y.F., 423 lbs. It is probable that later there will be some further importations of the two first-named brands.

CHLORATE OF POTASH.—Quiet, at 5½*d.* per lb. on the spot, or 5⅜*d.* per lb., f.o.b. Liverpool, for English brands. For 1895 delivery the quotation is 5½*d.* per lb., f.o.b. Liverpool.

CINCHONA.—The first of the new series of monthly bark-auctions was held on Tuesday, when an unusually large supply, mostly consisting of East Indian cinchonas, was offered. There were nine catalogues, aggregating as follows:—

	Packages		Packages	
Ceylon cinchona	538	of which	408	were sold
East Indian cinchona	1,496	"	1,239	"
Javan cinchona	207	"	161	"
West African cinchona ..	361	"	361	"
South American cinchona ..	113	"	41	"
	2,715		2,210	

The assortment of bark was a fairly good one. It consisted chiefly of Eastern *Officinalis* and *Ledger* barks, and included a small parcel of cultivated bark grown in South America, on an estate in Colombia. A considerable part of the East Indian bark was imported several months ago, and had been offered before. Competition was fairly good throughout the greater part of the sale, and though it fell off somewhat towards the end, a slight improvement was made upon the average of the last auction's prices, the unit being fully ⅝*d.* per lb. The total quantity of sulphate of quinine represented by the manufacturing bark at the auctions was about 320,000 oz.

The following are the approximate quantities purchased by the principal buyers:—

	Lbs.
Agents for the Brunswick factory	140,542
Messrs. Howards & Sons	94,044
Agents for the Frankfort-on-Maine factory	84,390
Agents for the Mannheim factory	80,846
Agents for the Auerbach factory	46,340
Agents for the Paris factory	22,300
Agents for the American factory	20,375
Sundry druggists	22,330
Total quantity of bark sold	511,167
Bought in or withdrawn	115,993
Total quantity of bark offered	627,160

It should be remembered that the quantity of bark bought affords no indication of the amount of sulphate of quinine represented by the purchase.

The following prices were paid for sound bark:—

CEYLON CINCHONA.—*Original.*—Red varieties: Fair, partly woody, to good bright quilly stem and branch chips, 1*d.* to 2*d.*; fair shavings, 1½*d.* to 2½*d.*; root, partly dusty, 1¼*d.* to 1½*d.* per lb. Grey varieties: Ordinary to good bright quilly stem and branch chips, 1⅞*d.* to 3⅜*d.*; common ditto, ¾*d.*; shavings, 1½*d.*; root, 1¼*d.* to 2⅞*d.* per lb. Yellow varieties: Ordinary to good bright stem and branch chips, ¾*d.* to 1⅞*d.* per lb.; hybrid chips, 1⅛*d.* to 2*d.*; root, 1¾*d.* to 2*d.* per lb. *Renewed.*—Red chips, 1½*d.* to 1⅞*d.*; grey chips, 2*d.*; hybrid chips, 1¼*d.* to 1⅝*d.* per lb.

EAST INDIAN CINCHONA.—*Original.*—Red varieties: fair bold quill, 3*d.*; broken ditto, 2½*d.*; chips, 1*d.* to 1⅛*d.* per lb. Grey varieties: Gold bold, partly broken, mossy quill, 5*d.*; shavings and stem and branch chips, ordinary to very good rich, 1¼*d.* to 3*d.*; root, 2¾*d.* to 3⅛*d.* per lb. Yellow varieties: fair to good bright shavings, stem and branch chips, 1¼*d.* to 4*d.* Hybrid chips, 1¼*d.* per lb. *Renewed.*—Red chips 1*d.* to 1⅛*d.* per lb.; grey shavings, 3⅜*d.* to 4¾*d.*; stem and branch chips, 2½*d.* to 4*d.* per lb.; yellow stem, 1⅝*d.* to 3¾*d.* per lb.; hybrid chips, 1¼*d.* per lb.

JAVAN CINCHONA.—Yellow fair to good stem and branch chips, 1⅜*d.* to 4*d.*; root, 1⅛*d.* to 2½*d.* per lb.

WEST AFRICAN CINCHONA.—The whole of the supply offered sold at low prices. Fair to good bright, partly stout quill, partly broken, 2*d.* to 2⅜*d.* per lb; broken and chips, 1½*d.* to 1¾*d.* per lb.

SOUTH AMERICAN CINCHONA.—Seventy-two bales of damaged cultivated Bolivian *Calisaya* quill, containing about 6 per cent. of quinine sulphate, were bought in, bids of from 3¼*d.* to 3¾*d.* being refused. Forty-one bales (mostly damaged) cultivated cinchona, grown on a Colombian plantation and imported *viâ* Savanilla, sold at from 2⅜*d.* down to 1⅛*d.* per lb.

Detailed reports of the Amsterdam cinchona-auctions of last Thursday state that the equivalent of 10,746 kilos. of quinine was sold, and that of 13,885 kilos. bought in, at those sales. In spite of the heavy quantities offered, and the knowledge that the shipments of bark from Java have been unusually high lately, the tone of the auctions was rather steady. Pharmaceutical barks were offered freely, and were difficult of sale for ordinary grades, but fine druggists' quills were firmly held.

COCAINE is firmly held, although at present there is no alteration in price.

CODEINE.—From 12*s.* 3*d.* to 12*s.* 6*d* per oz. is quoted for this article by the makers. The lower figure would probably be accepted, and might perhaps be shaded a little in second-hand.

COLOCYNTH.—Almost the whole of the stock of *Turkish* colocynth appears again to be controlled by one firm, who ask 2*s.* 6*d.* per lb. for good pale apple.

CORIANDER.—Although *European* and *Moroccan* varieties still remain very scarce, *East Indian* coriander-seed is coming in rather freely. Seven hundred bags have arrived from Bombay this week. *English* coriander is worth from 32*s.* to 34*s* per cwt. according to quality.

CREAM OF TARTAR.—Declining in price. From Bordeaux best white *French crystals* are offering at 62*s* per cwt., f.o.b. On the spot 67*s.* 6*d.* per cwt. is still asked, and 70*s.* per cwt. for German powder.

CUMIN-SEED.—Much dearer. Fair *Mogadore*, which a few days ago could be had at 23*s.*, is now held for 29*s.* to 30*s.* per cwt. For fine *Malta* 40*s.* is asked, and a slightly lower quality, which not long ago only realised 30*s*, must now be paid for at the rate of 37*s.* 6*d.* per cwt.

ERGOT OF RYE.—Higher prices are asked in most quarters, especially for *German* and *Russian* ergot. Sales of the latter are said to have been made this week at 9*d.* per lb., c.i.f. terms, while for *Spanish* ergot 10*d.* per lb., c.i.f. London, was the last quotation. It is, however, doubtful whether that price would still be accepted. On the spot 11*d.* per lb. has been paid for good sound ergot. To-day the quotation for *Russian* ergot is from 9¼*d.* to 9½*d.* per lb. c.i.f.

FENNEL-SEED.—Scarce. The nominal value of good *East Indian* is 16*s.* per cwt., but for the moment nothing is offering.

GALLS.—*Persian* galls have been selling at rather lower prices, both for delivery and on the spot. The market still has a falling tendency, and there are some eager sellers, but no buyers except at much easier rates. The following are the current spot quotations:—*Bassorah* (*Persian*): Blue, 47*s.* 6*d.* to 48*s.*; green, 35*s.* to 37*s.*; white, 30*s.* to 34*s.* per cwt. *Smyrna* (*Anatolian*): Blue, 45*s.*; green, 32*s.* 6*d.* to 35*s.*; white, 30*s.* per cwt. *Chinese Galls* very steady. There are no sellers of fair usual shape under 46*s.* per cwt., c.i.f. terms.

GINGER.—*Cochin* ginger is rather easier. About 650 bags were brought to auction on Wednesday, of which 225 sold at

32*s.* to 32*s* 6*d.* for ordinary rough wormy small, 39*s.* to 40*s.* for fair small to medium washed rough, and 40*s.* 6*d.* to 42*s.* for wormy medium to bold partly scraped. Twenty bags limed *Japan* ginger realised 30*s.* per cwt. *Jamaican* root dull of sale and all bought in.

Gum Acacia.—The upply of *Soudan* (*Turkey*) sorts is almost limited to second-hand parcels, which are very firmly held. For hard dull glassy to fair pale gum from 54*s.* 6*d.* up to 65*s.* per cwt. has been paid; but fine sorts are held for as much as 70*s* per cwt. *Gehzirah* and *Talea* gums are not offering for the present. For *Persian* gums there has been a better domand lately.

Ipecacuanha.—A fair amount of business has been done this week privately. Good annulated *Rio* (*Brazilian*) has been sold up to 5*s.* 9*d.* per lb, while sea-damaged *Carthagena* (*Colombian*) has realised 3*s.* 9*d.* per lb.

Jaborandi.—There has been an arrival in Liverpool of 30 bags, per *Helene*, from Ceará (Brazil).

Jalap.—The market is reported to have a somewhat firmer tendency, good heavy mixed *Vera Cruz* not being obtainable now below 1*s.* 3*d.* per lb.

Kola.—At Wednesday's spice-auctions 15 bags newly-imported *West Indian* kolas were offered. Only 3 of these were sold, at 1*s* 6*d.* per lb. for fair dry, but rather small. There have been some arrivals this week—viz, 17 bags from Africa, and 10 from the West Indies.

Menthol.—The price of 15*s.* per lb. is still generally asked, but for arrival it might be possible to buy at 12*s.* 6*d.* per lb. c.i.f.

Morphia.—A few days ago one of the manufacturers issued a revised price-current, in which he quoted morphia in *Powder* 3*d.* lower—viz., 5*s.* per oz. The other makers have not followed his example at present.

Oils (Essential).—Japanese *Peppermint oil* is tending lower. Business was done a few days ago at 8*s* 9*d.* per lb. on the spot for 40-per-cent. oil, but it is doubtful whether that price would now be obtainable. Mail news is now to hand from Hong-Kong (bearing the date of October 11) containing particulars of the cargo of the s.s. *Bellona*, the loss of which we reported recently. It appears that the *Bellona* carried 179 packages of essential oils, but only 90 of these represent the oil of *star anise* lost by the foundering of the vessel. The remainder was presumably cassia oil. The inquiry for *Eucalyptus oil* continues. It is true that prices, as yet, show no quotable advance, but a good business has been passing lately, and cheap lots are not now very easy to find. *Lemongrass oil* is dull of sale at 1¾*d.* per oz on the spot for fair native brands. *Oil of citronella*, fair native, offers at 10½*d.* to 11*d.* per lb. American *Oil of peppermint* (HGH) is somewhat easier, and may be had at 12*s.* 3*d* per lb. on the spot. For *Wayne County* oil from 7*s.* to 7*s.* 6*d.* per lb. is asked, while D & O oil has sold at 8*s.* per lb net. *Todd's crystal white* oil is held for 10*s.* 6*d.* per lb. *Oil of cassia* has been sold at 4*s.* 3*d.* to 4*s.* 2½*d.* per lb. on the spot; there are, however, some holders who stand out for 4*s.* 6*d.* per lb., but for the present that price is not obtainable. Business is reported for arrival at 3*s.* 7*d.* to 3*s.* 8*d.* per lb, c.i.f. terms, for medium quality.

Oil (Star-anise) may be had on the spot at 9*s.* per lb., while September-October shipment has been sold at 6*s.* 3*d.* per lb, "c.i.f." terms. For November shipment 6*s.* 2*d.* per lb. c.i.f., and for November-December 5*s.* 10½*d.* per lb. c.i.f., is asked.

Opium.—The London market remains inactive, possibly on account of the difficulty experienced in inducing holders to part with supplies at the current market rates. The general range of prices is as follows:—Good to fine *Soft shipping*, 11*s.* to 12*s.*; ditto *Smyrna*, 10*s.* to 11*s.*; *Second druggists'*, 9*s.* 6*d.* to 9*s.* 9*d.*; ordinary to fine *Constantinople*, 9*s.* 6*d.* to 10*s.* 6*d.*; *Persian*, 10*s.* to 11*s.* 6*d.* per lb. A Smyrna correspondent, writing under date of November 3, observes that reports from the growing districts continue to speak of want of rain in the principal sections. Native speculators have again been encouraged, by the persistence of these reports, to come into the market. Their purchases, added to those of buyers for consumption, have brought about a fresh rise, which has attained somewhat considerable dimensions. During the week closing to-day, 53 cases of opium have been sold (of which 28 were taken by speculators) at the following parities:—Old tale quale *Karahissar*, 9*s.* 8*d.* to 10*s.* 1*d.*; old *Yerli*, 10*s.* 4*d.*; old *Karahissar*, 10*s.* 1*d.*; new *Karahissar*, 10*s.* 1*d.*, f.o.b. Smyrna. The market closes firmly. The arrivals since the beginning of the season are 1,772 cases, against 822 cases at the corresponding date of 1893.

Orris-root.—Reports from Italy speak of steadily rising prices, good pale *Florentine* root being now quoted at 71*s.* to 72*s.* per cwt. f.o.b. Leghorn. In London good pale slightly yellow mixed Florentine has been sold at 75*s.* per cwt., and owners are not willing to continue business on that basis.

Otto of Rose.—Our correspondent in Bulgaria writes under date of November 2:—The 1894 crop has at last been bought up by the various exporters. Only a few thousand ounces remain here and there in the rose district. As usual, the unexpected has happened, and the assertion of an old exporter that the dealers and consumers abroad have nothing to do with the fixing of prices here has proved true. The exceptional stagnation that has characterised the preceding three months in the Bulgarian rose-market and promised to restore the former normal prices is a thing of the past. The last three weeks have witnessed an unprecedented excitement, which throws in the shade even the phenomenal movement of the year before. The result has been a sudden rise in the price and the immediate purchase of more than two-thirds of the whole crop at last year's prohibitive figures. This abnormal state of affairs augurs no good for the future wholesome development of the Bulgarian rose industry. The vendors of artificial and made-up otto, who have considerably helped to bring about this unwarranted rise in the price of genuine oil, are of course very jubilant, and so are the holders of old stock. This time the immediate causes of the ruinous rise are the exporting jobbing houses, who make a speciality of put-up grades, and usually sell their brands at 15 to 20 per cent. below the local price. As early as last August they declared their new price from 25*s.* to 28*s.* 6*d.* per T. oz, and all through last month they have been buying at break-neck haste all the otto they could lay hands on at prices ranging from 33*s.* to 37*s* per T. oz.

Pilocarpine.—One of the manufacturers has again put up his price, and now quotes *Nitrate* and *Hydrochlorate* at 8*s.* per gramme (both of these were 7*s.* 9*d.*), while for pure *Pilocarpine* he requires 9*s.* per gramme. It is, however, possible to shade these quotations somewhat.

Quicksilver.—The market is rather dull. Importers still hold at 6*l.* 15*s.*; second-hand owners offer at 6*l.* 9*s.* per bottle.

Quinine.—Steady. Some little business (about 5,000 oz) has been done this week at 11¾*d.* per oz. for second-hand German bulk. The market closes firm with few further sellers at this figure.

Saffron is still tending lower, best *Valencia* being now offered at 18*s.* per lb.

Senega.—About 1½*d.* per lb. lower. Good *Western* root, for which 1*s* 6*d.* was asked until recently, is now offering at 1*s.* 4½*d.* per lb.

Senna.—There have been some further arrivals (about 280 bales) from Bombay this week.

Shellac.—The market is firm and tending higher. *Fine orange* lacs are held for famine prices, and supplies are almost unobtainable. Fair standard TN *Second orange* is quoted at 108*s.*; livery at 105*s.* per cwt. Good free *Garnet* lac is worth 107*s.* 6*d.*; blocky, 104*s.* per cwt. The following are the current prices for *Button lac*: Good to fine firsts, 119*s.* to 122*s.* 6*d.*; seconds, 115*s.* to 117*s.*; thirds, common druggists' kinds, from 80*s.* per cwt. upwards.

Star-anise firmly held. For good genuine *Chinese* star-anise 75*s.* per cwt. is asked on the spot, but we have not heard that more than 70*s.* has been paid.

Sugar of Milk.—A strong demand has lately sprung up for this article, of which the supply, owing to a prolonged period of prices verging upon unprofitableness, has greatly diminished. Within the last few days 55*s.* per cwt. has already been paid for fair brands, and there is little to be had.

Correspondence

Pressure on our space this week compels us to hold over several pages of letters and replies.

Parke, Davis & Co. Reply.

SIR,—We regret to note in the correspondence column of last week's *C. & D.* "Butyl's" remarks *re* your Town Traveller and ourselves. As to the first part of "Butyl's" letter we will state that we list 22 formulæ of medicinal syrups, and the average net cost to chemists is just under 2*s.* 4*d.* per bottle of 16 fl. oz. We supply the medicinal syrups in 16 fl. oz bottles because they are prescribed in larger doses and more frequently repeated than in the case of other liquids; again, in view of the low selling-price we have deemed it inexpedient to market the medicinal syrups in smaller containers than 16 fl. oz. In the case of the more expensive preparations, such as fluid extracts and those lines seldom prescribed, we issue these in 4, 8, and 16 fl. oz. bottles. It is contrary to our business policy to attempt in any manner whatever to overstock chemists with goods bearing our label. The latter part of "Butyl's" letter plainly indicates that he has confused us with another firm, and, fearing that others may be under the same misapprehension as "Butyl," we trust that you will give publicity in the columns of your widely-circulated journal to the following:—

DISCLAIMER.

Our attention being now called to the existence of an impression amongst our friends of the trade that we are connected with certain wholesale and retail establishments carried on under somewhat similar titles, we beg to state that our house has no connection whatsoever, directly or indirectly, with any other establishment or firm in Europe, the business of the English branch being carried on under our sole style and title of

PARKE, DAVIS & CO.,
Manufacturing Chemists.

21 North Audley Street, London, W.

We believe had "Butyl" been careful to examine into the *modus operandi* of our house, particularly in co-relation with the trade, the opinions he holds (certain of which we cordially endorse) would not have been mentioned in connection with our name. Yours faithfully,

PARKE, DAVIS & CO.
London, November 13. F. M. FISK (Manager).

Qualified Assistants and Stores.

SIR,—I think a little reflection will show that qualified assistants who engage themselves to stores are what is commonly called "cutting open the goose."

By the time they reach middle age most will have wives and families, and their places will pass to younger and more eligible men, many of the displaced probably looking towards a benevolent fund to be provided by those they have been instrumental in crippling or ruining. The past of the drug-trade affords abundant examples of men who, when young, commenced business with about 200*l.* of capital, and who, after from twenty to forty years of active life, have retired on comfortable incomes. But where will such opportunities be found when nearly every town is occupied by stores supplying drugs at a scale of remuneration at which many a well-to-do artisan would turn up his nose? *Verbum sap.* SENEX. (278/33.)

Indian Medical Congress.

SIR,—We see the Indian Medical Congress is fixed for December 24 to 29, and probably many other firms find themselves in a somewhat similar position to ourselves, that we have goods we would like much to exhibit, but the importance of the trade in India is hardly sufficient to warrant us in sending out a special representative.

Perhaps you would ventilate this subject in your columns, as doubtless there must be many good houses in India, and possibly many pushing young agents, who would be glad, for a fair remuneration, to take charge of exhibits from England, and arrange agencies, so that the seed sown by exhibiting at the Congress should not be wasted.

Yours obediently,
London, November 14. HERTZ & COLLINGWOOD.

MISCELLANEOUS INQUIRIES.

Back numbers containing formulæ, educational or other specific information can be obtained from the Publisher.

N.B.—We destroy anonymous letters. We do not answer queries of the kind here dealt with by post. We ask that separate queries shall be written on separate sheets of paper.

161/61. *A. S. W.*—A similar query was replied to a few weeks ago.

159/10. *Oxygen.*—Sometimes nitrous oxide-gas is given two or more times at a sitting; but we do not think that you should do this unless you know the condition of your patient's heart.

158/3. *Pal.*—Black Ink for Brass Stamps.—Ordinary printers' ink thinned with olive oil, or—

Aniline black, E	ʒiij.
Distilled water	℥x.
Wood vinegar	℥x.
Rectified spirit	℥x.
Glycerine	℥vij.

Mix, and dissolve.

156/67. *Statim* would have a chance of an early reply if he gave us his name.

161/63. *Fossiline.*—You will find the subject discussed in almost every volume for the past five years—*e.g.*, July 30, 1892.

162/64. *Inquirer.*—Chrysarobin Stains on Linen.—First wash with a mixture of liq. potassæ ℥j. in 1 pint of water, then in cold water, and with weak solution of chlorinated lime, finally rinsing in plain water.

162/1. *Subscriber* (Notts).—(1) Polish the marble with putty-powder (if very rough), then with olive oil and chamois, or simply with furniture-polish. (2) Starch-gloss.—Powdered borax, or 6 parts of the same with 1 part of powdered spermaceti.

161/29. *J. J.*—Dentifrice-water.—See *C. & D.*, July 29, 1893, page 177. Omit the carbolic acid, if not wanted. See also November 3, page 663.

160/33. *Quero.*—(1) Smelling-salts.—For the AmCl and K_2CO_3 kind the best proportions are 2 oz. of sal ammoniac (coarsely powdered) and 5 oz. of dried potassium carbonate. Better than that is the mixture of ammon. carb. 4 oz and liq. ammon. fort. 2 oz, kept together in a jar for a fortnight. (2) Cocculus indicus is not used for children's hair-lotions. See the 1894 DIARY. (3) Eczema-ointment:—

Ung. zinci	℥ij.
Spt. rectificat.	℥iss.
Resorcin.	ʒj.

M.

The zinc ointment must be quite fresh.

160/24. *Silicate.*—Please explain. We do not know what you mean.

165/50. *Postmaster* wants a transparent cement to fasten photos on glass. Make a warm solution of Nelson's photographic gelatine—50 grs. to 1 oz. of water. Then take the prints from the washing water, dip them into the solution, and lay face down on the glass, squegeeing into contact. In the case of gelatine chloride paper, it is sufficient to squegee the prints down on the glass (which has not been chalked) without using this gelatine solution.

164/33. *Ravenscroft.* — Formal, or Formaline, is a 40-per-cent. solution of formic aldehyde, and is used as an antiseptic. Messrs. A. & M. Zimmermann are the agents for it, but you should get it through any wholesale house.

258/94. *F. T. R.*—We find the Insecticide to be a mixture of impure nicotine, camphor, oil of rosemary, and methylated spirit. You tell us that it is manufactured in bond from duty-free tobacco, and probably the makers also have permission to use methylated spirit. We suggest the following process for making a similar preparation:—

Tobacco-powder	1 lb.
Water	1 pint.
Spirit	2 pints.

Moisten the tobacco-powder with the mixture of spirit and water, and after standing six hours pack in a percolator, covering with the menstruum. After a day's maceration allow the liquor to percolate, and continue the process with the rest of the menstruum. To the percolate add 2 oz. of liq. plumbi subacet. conc., shake, and allow to settle for a day. Decant the clear liquor and saturate with sulphuretted hydrogen. Filter and evaporate the filtrate to 2¼ oz. Add to this 8 oz. of camphor and ½ oz oil of rosemary dissolved in 2¼ oz. of spirit.

Directions for use:—Well shake the bottle before pouring out, and keep corked. Fill a small evaporating-basin with the compound, and place it over the flame of a spirit-lamp. As soon as the vapour commences to ascend the person should leave the greenhouse.

You can get duty-free tobacco-powder from Corry & Co. (Limited), 16 Finsbury Street, E.C.

INFORMATION WANTED.

The Editor invites, on behalf of inquiring subscribers, postcard replies to the following:—

178/80. Who are the makers of febrodyne?

174/21. Who are the owners of the Wallis process (perfected by Sadler & Wilson) for making bleaching-powder?

166/15. Maker or composition of "carboline."

111/94. Formula for petroleum emulsion now being prescribed.

INFORMATION SUPPLIED.

For this section we are always glad to receive from subscribers brief notes on practical subjects, recipes which have been found good in practice or which have required modification, and hints or fresh ideas on any pharmaceutical or trade matter.

Brazil Salts.—The article required by your customer's correspondent is, I believe, "Barilla salts." Barilla, or Spanish Barilla, is the commercial name for the alkalies derived by burning the plants growing on the sea-shore at Alicante, Malaga, &c. It was formerly the only source of soda, and contained about 40 per cent. of carbonate of soda. The present soda crystals would represent it in a refined form. The soda-ball, or crude soda, as it occurs in the production of carbonate of soda from common salt, is sometimes called "British Barilla."

Swinton Street, W.C. H. O. Huskisson.

Uricedin, about which an inquiry was printed two weeks ago, is a remedy recommended by Dr. M. Mendelsohn at the Medical Congress for the treatment of uric-acid diathesis. It is a mixture of citrate of sodium, sulphate of sodium, chloride of sodium, and citrate of lithia, prepared, according to the *Pharm. Zeit.*, by a patented process. In freshly-pressed lemon-juice, freed from impurities and clarified, the amount of citric acid is quantatively estimated; and, after cooling to a proper temperature to a quantity of it representing 50 parts of anhydrous citric acid, there are added 20 parts of sulphuric acid (95 per cent.) and 4 parts of hydrochloric acid (25 per cent.). After this, pure bicarbonate of soda is added till the mixture gives only a faintly acid reaction. One part of purified carbonate of lithia is dissolved separately in sufficient lemon-juice to render the solution exactly neutral; this solution is mixed with the former, the whole evaporated to perfect dryness and granulated. The resulting preparation contains 27·5 per cent. sulphate of soda, 1·6 per cent. chloride of soda, 67 per cent. citrate of soda, and 1·9 citrate of lithia. It is given in daily doses of ʒiv.–ʒvj, or gr. xv. to gr. xxx, at a time.

Spiegler's Test for Albumen in Urine, and presumably in anything else, which I enclose, leaves nothing to be desired as regards simplicity and accuracy:—

Hydrarg. perchlorid.	8·00
Acid tartaric	4·0
Sacch. alb.	20·0
Aq. dest.	200·0

Ft. solutio.

Mode of using: Place a little in a test-tube, then gently add some of the urine. If albumen is present a "ring" will form at the junction of the two liquids.

Note. Chlorides or HCl. must be present. The sugar is used to raise the s.g. of the test solution to 1060, which is higher than nearly all urines.

H. A. Swayne (Dublin).

Lin. Ammoniæ.—Referring to a recent answer to correspondent, I suppose you have remarked that a mixture of lin. camph. and liq. ammoniæ keeps fluid for any length of time, contrasting favourably with the ordinary liniment of ammonia. C. C. (176/70.)

Next Week.

Meetings, &c., to be held, and business to be transacted thereat. Suitable notices will be inserted in this section if received by the Editor on or before Wednesday.

Wednesday, November 21.

Chemists' Aërated and Mineral Waters Association (Limited). Annual Meeting. Anderton's Hotel, 162 Fleet Street. 3 P.M.

Western Chemists' Association (of London). Annual Dinner at the Café Royal, Regent Street, W.

Brighton Junior Association of Pharmacy. Smoking Concert at the Hotel Métropole.

Royal Microscopical Society, 20 Hanover Square, W., at 8 P.M. Mr. E. M. Nelson on "A Simple Method of Measuring the Refractive Indices of Media." Mr. W. A. Turner "Demonstration of Staining Central Nervous System" (with lantern).

Society of Arts, John Street, Adelphi, W.C. Opening Address, by Major-General Sir John Donnelly. 8 P.M.

Thursday, November 22.

Chemists' Assistants' Association. 103 Great Russell Street, W.C. Mr. E. White on "Surgical Dressings." 8.30 P.M.

Liverpool Chemists' Association. Paper: "Some objects of Pharmaceutical interest in the Liverpool Museum" (with illustrations), by Mr. T. H. Wardleworth.

Friday, November 23.

Institute of Chemistry, 30 Bloomsbury Square, W.C. Conference on "The Relation of Members of the Chemical Profession to One Another and the Public." 8 P.M.

Saturday, November 24.

Society of Chemical Industry (Newcastle Section). Meeting in the College of Science for the purpose of presenting Dr. Dunn, the late Secretary, with a testimonial from members of the Section.

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&c. &c. &c.

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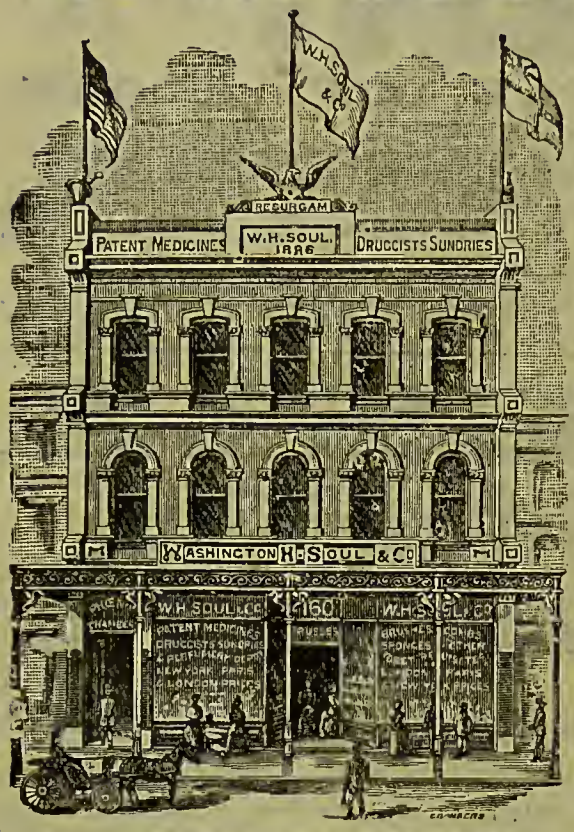

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B. G. LENNON & Co., LTD.

Wholesale Druggists, Manufacturing Chemists, and Druggists' Sundriesmen,

CAPE TOWN, PORT ELIZABETH, AND EAST LONDON.

With Branches in all Important Centres in South Africa.

AGENTS FOR THE NATAL DRUG CO., DURBAN, NATAL.

LONDON OFFICE: 14 BUNHILL ROW, E.C.

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WHOLESALE DRUGGISTS & IMPORTERS,

Manufacturing Chemists, BRISBANE, QUEENSLAND.

Importers of Drugs, Chemicals and Druggists' Sundries, Patent Medicines and Perfumery, Surgical and Photographic Sundries, Confectioners' and Dyers' Goods, Dental Sundries, Soda-water Machinery, Bottling Racks, Egg-shape and Lamont's Soda-water Bottles, and all Cordial Makers' Requirements.

All parts of Queensland visited at regular intervals by experienced Travellers. Agencies solicited from firms who are prepared to actively introduce their Manufactures into the Colony.

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THE AUSTRALIAN DRUG CO., LIM.,

LATE E. PROSSER & CO.,

IMPORTERS OF PATENT MEDICINES, DRUGGISTS' SUNDRIES, DYE GOODS, SURGICAL INSTRUMENTS, PERFUMERY, FANCY SOAPS, SPONGES.

EXPORTERS AND SOLE AGENTS OF "NATIVE BEAR" BRAND EUCALYPTUS OIL. IMPORTERS OF BRUSHWARE, CORDIAL MAKERS, MACHINERY, CORKS, BOTTLES, LABELS, PHOTOGRAPHIC CHEMICALS AND MATERIALS.

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NEW ZEALAND DRUG COMPANY, LIMITED

WHOLESALE DRUGGISTS,

MANUFACTURING CHEMISTS, AND COMMISSION MERCHANTS,

Head Office and Factory, DUNEDIN.

BRANCH HOUSES:

High Street, CHRISTCHURCH,
Hunter Street, WELLINGTON,
Wyndham Street, AUCKLAND,

Patent and Proprietary Medicines Agency.

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C. F. BOEHRINGER & SOEHNE,

WALDHOF, near MANNHEIM,

MANUFACTURERS OF

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(R.L.P., No. 818, 13.1.93).

LACTOPHENIN,

SULPHATE OF QUININE, and all other **CINCHONA PREPARATIONS.**

ALSO OF

ACETANILID, CAFFEINE, COCAINE, CHLORALHYDRAT, CUMARIN, GALLIC ACID,

GLYCERINE, HELIOTROPIN, PYROGALLIC ACID,

SALICYLIC ACID & SALICYLATES, STRYCHNINE, TERPIN HYDRAT, &c.

STOCKS KEPT IN LONDON, GLASGOW, AND DUBLIN.

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Wholesale Agents for Bosisto's Genuine Oil of Eucalyptus.

BALL-ROOM FLOOR POLISH

SHOULD BE THE

SELLING "SPECIALTY"

THIS WINTER.

It is a Granular Preparation, which does away with the labour of waxing.

In Tins, with perforated Lid and handsome Label

6/6 per dozen.

SELL READILY AT 1/6.

BLEASDALE

(LIMITED),

YORK.

42

J. ROBBINS & Co. 147 OXFORD ST.

METHYLENE,

Obtained by the action of Metallic Zinc on Chloroform and Alcohol.

Discovered to be a general Anæsthetic by Sir BENJAMIN W. RICHARDSON in 1867.

1-lb. Stoppered Bottle, 12s.; ½-lb., 6s. 6d.; 4-oz., 3s. 6d.; 2-oz., 2s.

COMPOUND ANÆSTHETIC ETHER,

For producing Local Anæsthesia.

In 4-oz., 10-oz., and 20-oz. Stoppered Bottles, 2s., 4s., and 7s.

OZONIC ETHER,

In 2-oz., 4-oz., 8-oz., and 16-oz. Stoppered Bottles, 2s., 3s. 6d., 7s., and 12s.

PEROXIDE OF HYDROGEN,

First introduced as a Medicine by Sir BENJAMIN W. RICHARDSON.

ETHYLATE OF SODIUM

(Sir BENJAMIN W. RICHARDSON'S Formulæ), for removing Nævi, &c.

In ½-oz. and 1-oz. Bottles, with elongated Stoppers for applying the Caustic, 2s. 6d. & 4s.

STYPTIC COLLOID,

For promoting the Healing of Wounds by the first intention.

In 2-oz. and 4-oz. Bottles, with Brush, 2s. 6d. and 4s. 6d.; 16-oz., 12s.

CHARCOAL CAPSULES,

Containing Pure Vegetable Ivory Charcoal.

In Boxes, 2s. 6d. each.

J. ROBBINS & Co. 147 OXFORD ST.

"IZAL" IS THE

NEW NON-POISONOUS DISINFECTANT,

"IZAL"

And is now supplied by the chief Wholesale Houses.

Show Cards, Pamphlets, Printed Matter, And any information the Trade may require, can be obtained on application to

Allen & Hanburys,

BETHNAL GREEN, LONDON.

Who are the Sole Bottling Agents for the Manufacturers.

TO THE MEDICAL PROFESSION AND CHEMISTS.

Owing to misapprehensions as to the amount of morphine used in the preparation of

Mrs. WINSLOW'S SOOTHING SYRUP,

we wish to state that the amount is one-eighth (1/8) of one grain to a fluid ounce. As there are eight teaspoonfuls to an ounce, the amount of morphine in a teaspoonful, our maximum dose, is one sixty-fourth (1/64) of a grain.

It will be seen that this is very much less than the quantity used in similar preparations authorised by the Pharmacopœia.

The Anglo-American Drug Company (Lim.),
W. RENAUD, Managing Director.
33 Farringdon Road, London.

MALT EXTRACT.

E. LECONTE & CO^Y.

THE LARGEST MALT EXTRACT MANUFACTURERS IN THE WORLD.

3 GOLD MEDALS AND LEGION OF HONOUR for Scientific Improvements in the Manufacture of Malt Extract, &c.

DIASTASIC MALT EXTRACT, prepared in Vacuo from the finest Barley, and specially made for Manufacturing Chemists to combine with other preparations. Also for Medicinal purposes, Brewers, Vinegar and Wine Makers, Bakers, and Confectioners.

MALT EXTRACT MANUFACTURED ANY DIASTASIC STRENGTH REQUIRED.

MALT EXTRACT AND COD LIVER OIL.

Samples and Quotations on Application.

Wholesale & Export—HORSESHOE ALLEY WAREHOUSES, BANKSIDE, LONDON, S.E.

MANUFACTORIES—

ESTAIRES, LA GORGUE, MARCOING, & DUNKIRK, FRANCE.

DR. LALOR'S PHOSPHODYNE

For THIRTY YEARS has maintained its world-wide reputation as

THE ONLY SAFE RELIABLE PHOSPHORIC CURE for Brain Wreckage, Paralysis, Sleeplessness, Harassing Dreams, and all Functional and Diseased Conditions of the System dependent upon the Deficiency of the Vital Forces.

DR. LALOR'S PHOSPHODYNE

HAS THE LARGEST SALE OF ANY PHOSPHORIC MEDICINE IN THE WORLD.

The only Medicine of the kind or name awarded a Certificate of Merit at the Calcutta Exhibition, 1883-4

TRADE MARK—"PHOSPHODYNE."

THOUSANDS of unimpeachable Testimonials from all parts of the World. No other Phosphoric Preparation has received such exalted praise and distinguished recognition.

To be obtained in Bottles at 4s. 6d. from all Chemists, &c., &c.

MANUFACTURED ONLY AT

DR. LALOR'S PHOSPHODYNE

LABORATORY, HAMPSTEAD, LONDON, N.W.

CHEMISTS enclosing Trade Card will be supplied free with a neat Showcard and Bills for Counter.

EXACT FACSIMILE

OF BOTTLE AND LABEL.

Artistic Show Cards and Printed Matter from

MACKENZIE'S CURE DEPOT, READING.

THE MOST **POPULAR REMEDY** OF THE DAY.

SELLS AT SIGHT.

Has the Largest Sale of any Smelling Bottle in the World.

Wherever introduced has become a general favourite, giving universal satisfaction to both buyer and seller, commanding an increasing sale through personal recommendation.

Bears a larger profit than a fancy bottle, without the trouble of filling.

It is the best-got-up Shilling Article in the market.

Correspondence solicited from pushing houses publishing Price Lists.

Wholesale from all Patent Medicine Depôts.

HAGGERTY'S CURACOF.

OF IMMENSE VALUE IN EVERY STAGE OF COUGH.

Altogether unrivalled in Whooping-cough, Croup, Bronchitis, Hoarseness, Asthma, Consumption, &c., &c.

Entirely free from Narcotic Drugs. In 1/1½ Bottles only.

HAGGERTY'S CURACOF WORKS, West Street, CHARLTON, LONDON, S.E.

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WHOLESALE AND EXPORT DEALERS IN

Patent Medicines and Proprietary Articles,

ENGLISH AMERICAN, FRENCH, &c.

SOLE AGENTS for ROCHE'S HERBAL EMBROCATION,

Burchell's Anodyne Necklaces, Ford's Balsam of Horehound, Widow Welch's Pills, by Mrs. Smithers, Oxley's Essence Ginger, and the preparations of Messrs. Hudson & Son, late of the Haymarket, London.

PRICE LISTS SENT ON APPLICATION. ORDERS CAREFULLY AND PROMPTLY EXECUTED

JOHN SANGER & SONS

Dealers in Patent Medicines,

DRUGGISTS' SUNDRIES, PERFUMERY, LOZENGES,

MINERAL WATERS, PHOTOGRAPHIC SUNDRIES AND ALL KINDS OF FANCY GOODS.

Catalogue Post Free on Application.

2 WINSLEY STREET, OXFORD STREET, LONDON, W.

157,810

DR. BOW'S LINIMENT.

Of late a spurious article has been offered for sale, put up in imitation of the genuine one even to copying the Pamphlet, Wrapper, and Labels. To protect the public from, and facilitate proceedings against, such frauds, the Proprietor has registered the Trade Mark here shown, a reduced copy of which will be found on the outside label on every bottle put up after this date. As a further security, the name "DR. BOW'S LINIMENT" (also a trade mark) appears in the Government Stamp.

BARCLAY & SONS, LIMITED, LONDON
RAIMES, CLARK & CO., EDINBURGH & YORK

For the Proprietor,
December 1st, 1891.

LONDON AGENTS for Wilkinson's A1 Mixture, Special Elixir, etc.—Hovenden, 91 City Road; Lynch, Aldersgate Street; Edwards & Co., 57 Queen Victoria Street; May Roberts, 9 Clerkenwell Road; Sutton & Co., 76 Chiswell Street, Finsbury; and all the Patent Medicine Warehouses.
BELFAST—Haslett, North Street. GLASGOW—Apothecaries Co., Virginia Street. EDINBURGH—Raimes, Clark & Co.

ADVERTISING BALLOON CO.

ALTRINCHAM, ENGLAND.

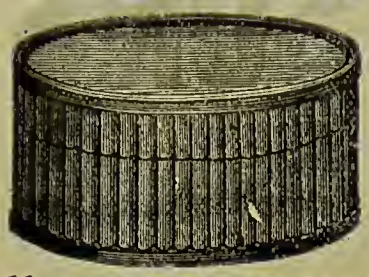
Advertising Balloons, printed with name, trade, and address, from 12/- per gross; each Balloon fitted with the improved long nozzle, so that a child can blow them out. We put name, &c., one side, and any figure the other. As a testimony to the quality of our manufactures, the largest advertising firms in the world have adopted our goods in preference to foreign-made articles. Makers of all kinds of Pessaries, Skins, Sheet Rubber Surgical Appliances, &c., &c. Special terms for Shipping and the Wholesale.

Notice.—To prevent disappointment, no notice will be taken of application for wholesale terms unless accompanied with *bonâ-fide* manufacturer's references.

Sample Rooms—9 Newton St., PICCADILLY, MANCHESTER.

All our own manufactured goods bear the above Trade Mark—3 Balloons.

THE "STIPENDUM" STOPPER CO., LIM.



47 LAMB'S CONDUIT ST., LONDON, W.C.,

MANUFACTURE THE FOLLOWING SPECIALITIES—

"STIPENDUM" CORK STOPPERS, in all sizes.

"STIPENDUM" CORK-LINED CAPS, for Pomade Bottles.

"STIPENDUM" OPENERS, for Stoppered Aerated-water Bottles.

"STIPENDUM" GREASE-PROOF COVERED POTS,

IN TERRA COTTA, CHOCOLATE, AND BLACK.

The Grease-Proof Covered Pots have perfectly-fitting lids, are practically unbreakable and the only articles really answering the purpose intended.

To be had of all Druggists' Sundriesmen. *Wholesale only of the Company.*

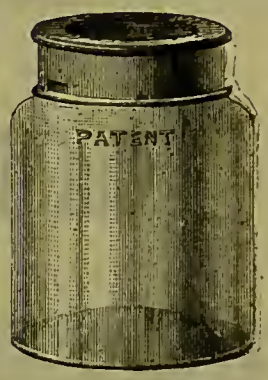
R. H. BARRETT'S PATENT CAPPED BOTTLE

THE ONLY REALLY PERFECT BOTTLE FOR VASELINE, POMADES, DRY POWDERS, ETC.

NOTICE REDUCTION IN PRICES.

PRICES (in 5-gross Lots):—Fitted with STRONG METAL CAPS, CORK-LINED, in various colours, very attractive in appearance—1 oz., 10/6; 1½ oz., 11/- 2 oz., 11/6; 8 oz., 13/6; 4 oz., 15/6 per gross. TALL SERIES.

CHEMISTS' AND PERFUMERS' BOTTLES IN GREAT VARIETY, PLAIN OR STOPPERED.



R. H. BARRETT,

FLINT GLASS BOTTLE WORKS,

THE OVAL, CAMBRIDGE HEATH, LONDON, E.

Telegraphic Address—"FOREFRONT LONDON."

THE

INCANDESCENT GAS LIGHT

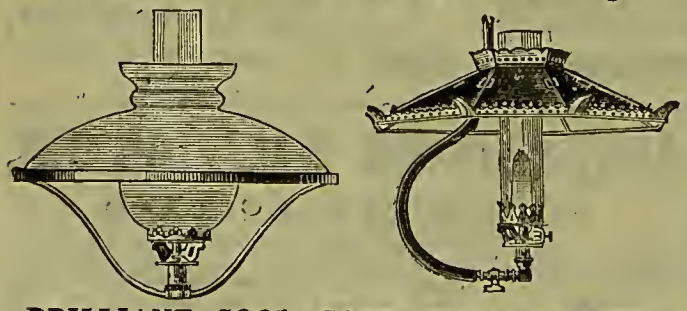
(WELSBACH SYSTEM).

TREBLE THE LIGHT WITH HALF THE GAS OF ORDINARY GAS BURNERS.

SUPERIOR TO ELECTRIC LIGHT

At One-eighth the Cost.

Can be attached to Existing Gas Fittings.



BRILLIANT, COOL, SOFT, STEADY LIGHT.

THE LIGHT for HOME or BUSINESS.

Full particulars Post Free on application to the

Incandescent Gas Light Co., Ld.

PALMER ST., WESTMINSTER, LONDON.

BRANCHES AND AGENCIES THROUGHOUT THE KINGDOM.

46

GLASS BOTTLES

GOOD AND CHEAP.

From Stocks in London or direct from the works.

THE NEW SHAPE FLATS,

With rounded edges, or the ordinary kind, plain or graduated.

3 and 4 ounce .. .. 8/- per gross.
6 and 8 " .. .. 9/- "

WHITE MOULDED PHIALS.

½ oz.	1 oz.	1½ oz.	2 oz.
3/6	3/9	4/6	5/3 per gross.

PANEL BOTTLES.

2 oz.	4 oz.	6 oz.	8 oz.
7/-	8/-	9/-	9/- per gross.

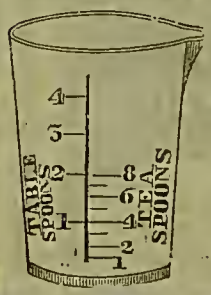
SPECIAL NOTICE.—Six gross and upwards of assorted sizes sent Carriage Free to any part of England. Smaller quantities not carriage paid. Sample bottle sent free on application.

I. ISAACS & CO., GLASS BOTTLE MANUFACTURERS

Francis St., Tottenham Court Road, LONDON, W.C.

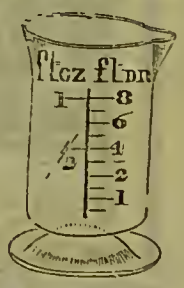
Established 50 years. Bankers—London and Westminster Bank.

GRADUATED GLASS MEASURES



BOAT-SHAPE FEEDERS, BOTTLES, FUNNELS, SYRINGES, THERMOMETERS, DRUGGISTS' GLASSWARE, AND CHEMICAL APPARATUS OF EVERY DESCRIPTION.

Shipping and Wholesale Trade only.



F. H. TAYLOR & CO.

28, 29, & 30 Glasshouse Yard, LONDON, E.C.

GLASS BOTTLES

FLAT—with Round Edges.

ALL SIZES, SHAPES, AND COLOURS.

DISPENSING BOTTLES.

BEST QUALITY,

SUITABLE FOR A HIGH-CLASS TRADE.

GREEN FLINT.

Flats (ordinary and round edges), Ovals, Direct Squares, Rounds and Octagons (plain, graduated, and lettered),

3	4	6	8	12	16 oz.
10/-	10/-	11/6	11/6	16/6	21/6 per gross.

WHITE VIALS (Plain and Graduated),

½	1	1½	2	3	4 oz.
3/2	4/5	5/1	5/9	7/9	9/- per gross.

A second-quality supplied at lower prices.

SAMPLES ON APPLICATION.

FEEDING BOTTLES.

No.	6½-inch Rubber Tube.	Small lots.	2-gr. lots.
1.	Green Bottles, Boxwood Top Corks, White Fittings	24/6	23/6
3.	Ditto, Black Fittings	27/-	26/-
	White glass 2/6 per gross extra.		
	China tops 1/6 per gross extra.		
64.	Green Bottles, Glass Screw Stoppers, White Fittings	29/-	28/-
66.	Ditto, Black Fittings	31/6	30/6
	White Glass 3/- per gross extra.		

(per gross.)

These prices include 1 doz. partitioned Wood Boxes. Bottles are loose 1/9 per gross less.

Supplied each Bottle in Cardboard Box at 4/6 per gross extra.

SPECIAL QUOTATIONS TO LARGE BUYERS.

Revised Price List (Illustrated), containing full particulars of above and many other kinds, sent on application to

KILNER BROTHERS,

No. 3 GREAT NORTHERN GOODS STATION, KING'S CROSS, LONDON.

BOXES

ESTABLISHED 18 39 ESTABLISHED

ROUND, OVAL, SQUARE, or FOLDING, for the

DRUG, DRYSALTERY, AND CONFECTIONERY TRADES.

LABELS, WHEN PRINTED TO OUR INSTRUCTIONS, WE PUT ON PILL AND OTHER BOXES FREE OF CHARGE.

BOXES AND CASES FOR

Baking Powder, Black Lead, Bottles, Camphor Ball, Capsules, Castor Oil, Cough Lozenges, Dispensing Powder, Eye Ointment, Fancy Boxes, Fuller's Earth, Folding Boxes, Glass Top Outers, Homœopathic Bottles, Insect Powders, Ink Cases, Jewellery, Lozenge, Lip Salve, Magnesia, Metal Paste, Marking Ink, Nipple Shields, Night Lights, Parcel Post Pastilles, Pills, Potash Tablets, Plasters, Salt Lemon, Seidlitz Powder, Starch Gloss, Soaps, Soda Powder, Syringes, Tapers, Tooth Powder, Violet Powder, &c.

ROBINSON & SONS, LIM., WHEATBRIDGE MILLS & HOLMBROOK WORKS, CHESTERFIELD.

And 55 FANN STREET, ALDERSGATE STREET, LONDON.

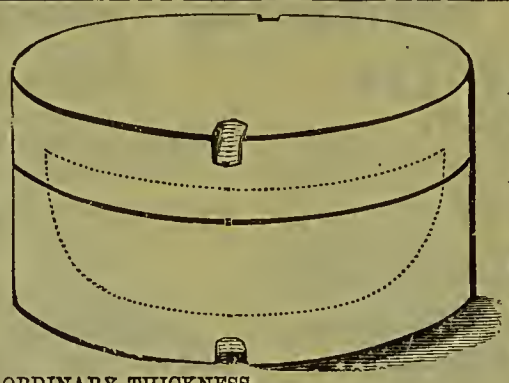
WILLIAM TOOGOOD.

TOOGOOD'S

IMPROVED PATENT

EARTHENWARE COVERED POTS

Are claimed to be the most perfect and convenient yet offered to the Trade.



Owing to the increasing demand for our Patent Pots, we have introduced a Special THIN Series for Dispensing.

These Pots are beautifully glazed and finished, and, being very light, are specially adapted for sending by post.

	1 dr.	2 dr.	½	¾	1	1½	2	3	4	6	8 ounces.
ORDINARY THICKNESS—	1/6	1/6	1/6	1/8	1/10	2/-	2/3	2/10	3/6	4/6	5/6 per doz.
THIN FOR DISPENSING—	½	¾	1	1½	2	3	4	6	8 ounces.		
	1/7	1/9	2/-	2/2	2/5	3/-	4/-	5/-	6/- per doz.		

TOOGOOD'S DISPENSING BOTTLES
TOOGOOD'S PERFUMERY BOTTLES
TOOGOOD'S MEASURES
TOOGOOD'S DRUGGISTS' SUNDRIES

ILLUSTRATED PRICE LIST FORWARDED POST FREE ON APPLICATION.

BURLINGTON BUILDINGS, HEDDON ST., REGENT STREET, LONDON, W.

BOTTLES.

AYRTON & SAUNDERS wish to draw the Special attention of the Trade to the very large and varied Stock of Glass Bottles now stocked by them, consisting, as a matter of fact, of over **2,000** varieties.

This large stock is kept in order to execute Post or Telegram orders the SAME DAY as received. Of course, when Bottles have to be lettered with name, or ordered direct from the works, then some delay is incurred, but with those exceptions PROMPT DELIVERY can be depended upon. At the present time, when Patent Medicines are being so much cut and sold by outsiders, it becomes a matter of necessity for the Chemist to put up and push his own Specialities, and A. & S. will be pleased to send any Samples on application, or, better still, if a personal visit can be paid to their Showroom, varieties of all sizes, shapes, colours, and designs can be seen, and a selection made. Should the exact Bottle wanted not be in stock, a new mould will be made if a fair quantity be taken.

DISPENSING BOTTLES.

ALL SHAPES—Round, Square, Flat, and Ovals, including "Oldham Flats" and Direct Squares with Round Corners.

PLAIN OR GRADUATED.

	3	4	6	8	10	12	16	20 ounces.
ORDINARY	8/-	8/-	9/6	9/6	12/-	13/6	18/6	21/6 per gross.
BEST QUALITY ...	9/6	9/6	10/9	10/9	13/6	16/-	21/-	24/- ,,
QUININE TINT	9/6	9/6	10/9	10/9	13/6	16/-	21/-	24/- ,,
WHITE FLINT	12/-	13/-	14/-	14/-	17/6	19/6	25/-	30/- ,,

LESS USUAL DISCOUNT.

Original Crates of 6 gross, which can be Assorted SIZES but not Assorted Qualities, sent direct, carriage paid, from our Glass Works to any railway station or port in Great Britain and Ireland.

On Orders of not less than 12 gross of One Size or Assorted a rebate of 1/- per gross on above prices will be made.

NAME PLATES INVOICED PART COST, 5/- each. DESIGNS ON APPLICATION.

AYRTON & SAUNDERS.

Postal Address: "Ayrton & Saunders Liverpool."
Telegraphic Address: "Sundries Liverpool."
Telephone No.— 423.

HOT-WATER BOTTLES.

All Chemists should try our "Comfort" Hot-water Bottles, made in Drab, Red, Black and Cloth covered. Retains its heat longer, and affords a more soothing effect than any others. Free from objectionable smell, and, being fitted with Patent Safety Screw, all risk of scalding in filling is prevented.

JACONETS (Pink, Brown, & Double Texture), **BED SHEETINGS, SPONGE BAGS, NURSING APRONS, WATER BEDS AND WATER CUSHIONS, ENEMAS** (Patent), &c., &c.

WRITE FOR LISTS.

WILLIAM CURRIE & COMPANY

CALEDONIAN RUBBER WORKS, EDINBURGH,

And 22 Castle Street, Falcon Square, LONDON, E.C.

FOURTH SEASON, 1894-5.

A UNIQUE APPLICATION OF KNOWN SCIENTIFIC FACTS.

Registered No. 160642.

SOLPORT'S "FURFELT" CHEST PROTECTORS

Registered No. 160642.

Are the result of a successful attempt to utilise as a protective covering for the Chest *the best non-conductor of heat known*, namely, *Coney Fur.*

By incorporating this fur by a new process with fine Undyed Lamb's Wool we have produced a material which is a scientifically perfect protection for the organs of the Chest against cold.

Since they are made from the warmest materials known, are so porous that a candle may be blown out through them, are non-absorbent, free from dye of any kind, soft as silk, perfectly washable, and of moderate price, they have been universally adjudged by the trade and its press

"AN IDEAL CHEST PROTECTOR."

INSIST ON OUR REGISTERED TRADE MARK AS HERE FIGURED.

PRICES	No. 0	1	2	3	4	5	6	
Single ...	5/6	6/6	9/-	12/-	15/6	20/-	25/-	per doz.
Double ...	12/-	15/-	20/-	25/6	34/-	42/6	52/-	"
Vest Shape...	16/6	22/6	30/-	37/6	46/6	58/6	70/-	"

SOLPORT BROS., 66 Shaftesbury St., New North Road, **LONDON, N.**

AND OF ALL WHOLESALE HOUSES.

Did you read our page

in issue of October 20th (page 49)?

If not, it will interest you to refer to it: good WINTER LINES were quoted.

This page is worth careful reading.

MINIATURE SPRAY.

Spun crystal glass, gilt mount, double balls, capacity ¾ oz. ... ... 27/- doz.

It is effective, takes very little to fill it, portable; and will charm ladies.

MENTHOL INHALER

AND CONE COMBINED.

The handiest pattern yet made, attractively boxed in hanging-glass show-case ... ... 3/6 doz.

GLYCERINE JELLY TUBE.

Crystal glass, with pale pink celluloid cap ... ... 11/6 gross

This makes a most attractive bottle for Jelly, Cachous, &c.

LIP SALVE.

In pink and white celluloid boxes, lettered in aluminium, 1 doz. in glass-top box ... ... 4/6 doz.

PUFF BOXES.

Finest quality, satinwood box, with puff, assorted decorations ... ... 8/- doz

These boxes, hitherto without puff, have never sold below 8/- doz.

Damask China, with nickled top, assorted colours ... ... 8/- doz

3 doz. 7/6 „

PERFUME CASES.

We have many patterns, and ONLY quote a few specially good ones. Let us send you a few.

2199. Each bottle in pull-off leather paper case, assorted colours, ½-oz. bottles, labelled in blocked silver label, sprinkler top ... ... 6/6 doz.

2200. Leather paper case, blocked gold, lined puffed satin, 1-oz. bottles ... 2/- each.

2201. Ditto, ditto, 2-oz. bottles ... 3/- „

2202. Ditto, ditto, 3-oz. bottles ... 3/9 „

No. 1 Cabinet case, containing 2 3-oz. bottles, lettered in enamel with name of perfume ... ... 4/- „

No. 12 Cabinet case, containing 2 best cut 2-oz. bottles ... ... 5/- „

No. 11 Cabinet case, containing 2 octagon cut bottles, 2 oz. ... ... 3/- „

TERMS.—Net monthly account. New accounts must be accompanied by London reference or remittance. Full list on application.

HOCKIN, WILSON & CO.,

Wholesale Druggists and Druggists' Sundriesmen,

13 to 16 NEW INN YARD, 186a TOTTENHAM COURT ROAD, LONDON, W.

CHEST & LUNG PROTECTORS.

SEASON 1894-95.

THE LARGEST SELLING LINE IS THE **"EUREKA" MEDICATED PINE WOOL FELT**

Invented and Manufactured Solely by me.

All Full Sizes. Colour, Golden Brown. Medicinally prepared, Porous, and Washable.

Sizes	0	1	2	3	4	5	6
Single .. Per doz.	6/-	7/6	9/6	12/6	15/6	18/6	21/6

Sizes	0	1	2	3	4	5	6
Double .. Per doz.	13/-	15/6	20/-	25/-	30/-	36/-	42/-

FELT PROTECTORS. Best Quality, in Scarlet, White, Natural, and Fur Felt.

Sizes	0	1	2	3	4	5	6
Single .. Per doz.	4/6	5/6	7/6	9/-	11/6	15/-	19/-
Double .. "	10/6	12/-	16/-	21/-	26/-	34/-	42/-

Sizes	0	1	2	3	4	5	6
Imperial Shape, Per doz.	12/6	14/6	19/6	27/-	34/-	40/-	48/-
Cuirass " "	13/6	15/6	20/-	28/-	35/-	42/-	50/-

A TERRA-COTTA STATUETTE, under Glass Show Case, supplied free of charge to those purchasing large parcels. Send for full list of all kinds.

My Goods obtainable at these prices from all Wholesale Houses, or if unable to obtain, can be had direct from me,

VINCENT WOOD, Manufacturer of Surgical Appliances,

3 ST. ANDREW STREET, HOLBORN CIRCUS, LONDON, E.C.

Steam Works, Nottingham, Herne Hill, and Carlton. Established 1840.

THE NEW PERMANENT

ENGRAVED WINDOW TABLETS,

PRIZE MEDAL, International Health Exhibition, 1884.

IN RUBY, BLUE, AMBER, AND OPAL GLASS.

AWARD OF MERIT, International Sanitary Exhibition, 1881.

Send particulars of size, subject matter, and colour, when price for one Tablet and upwards will be sent.

For Proprietary Articles, 100 8 × 6 Ruby Tablets, £3 15s. 0d.

J. R. CORSAN, THE LONDON SAND-BLAST WORKS, **58A GRAY'S INN ROAD, W.C.**

TO PREVENT FRAUD, DEMAND BUSINESS CARD FROM TRAVELLERS.

ESCHMANN BROS. & WALSH.

Inventors and Manufacturers of the

SOFT SILK FLEXIBLE CATHETER, GUARANTEED WITH WOVEN EYES.

To be had of all Surgical Instrument Makers and Wholesale Houses.

To be had of all Surgical Instrument Makers and Wholesale Houses

USED BY SURGEONS ALL OVER THE WORLD.

"THE LEICESTER" IMPROVED ADHESIVE PLASTER

In 3-yd. rolls, 16-in. wide.

In Handsomely Decorated Tins { containing 18 by 6 inches, to Retail 6*d.*; " 36 by 6 " " " 1/-

"The Leicester" Ribbon Plasters

On flesh colour Cambric, 6 yds. long, ¼-in., ⅜-in., ½-in., ¾-in., 1-in., 1½-in. and 2-in. wide, in japanned tins.

MAY BE OBTAINED FROM ANY WHOLESALE HOUSE.

Trade Mark

Registered.

THE ASSOCIATION FOR THE SUPPLY OF PURE VACCINE LYMPH,

12 PALL MALL EAST, LONDON, S.W.,

SOLE AGENTS FOR

DR. WARLOMONT'S CALF VACCINE.

Tubes, 2s. each. Half Tubes, 1s. each. Pomade in Vials, 5s.

HUMAN VACCINE (from healthy children only, microscopically examined and source quoted).—Tubes two-thirds full, 1*s.* 8*d.* each. Tubes one-third full, 1*s.* each. Tubes two-thirds full (same as those mentioned above, but without source), in quantities for export, £5 per 100 Tubes. Pin Points (uncharged), 1*s.* per dozen. Vaccine Ejectors, 1*s.* 3*d.* each, including postage.

Office hours, 10 to 4; Saturdays, 10 to 2. P.O.O.'s (including postage, and crossed "London and Westminster Bank") with orders, payable to

EDWARD DARKE, Secretary.

PLASTERS:

INDIA-RUBBER POROUS.

We have great pleasure in calling attention to the above Plasters in India-rubber combination. The quality is guaranteed, and in appearance they are quite equal to anything offering at present on the market; and we feel sure from the popularity that India-rubber Plasters have attained, and the reasonable price at which we offer them, our friends will be enabled to effect good sales. They are put up in fancy boxes, containing two dozen, and each Plaster is put in a separate envelope, which is not closed at one end, so that at pleasure the Plaster can either be sent out with simply the muslin facings on it (no name being on the Plaster itself) or with the printed envelope. The size of the Plaster is $7\frac{1}{2}$ by 5 inches.

PRICE

2/- PER DOZEN,

In Fancy Boxes containing two dozen.

BELLADONNA, CAPSICUM, STRENGTHENING.

We strongly recommend our customers to buy in one gross lots (which may be assorted), as we print name and address and any other matter on the wrapper and linen of each plaster free of charge, thus bringing name and specialities directly under the notice of purchasers.

EVANS, SONS & CO.,

LIVERPOOL.

LONDON: EVANS, LESCHER & WEBB.

CANADA: EVANS AND SONS (Lim.).

BOWLING & GOVIER,

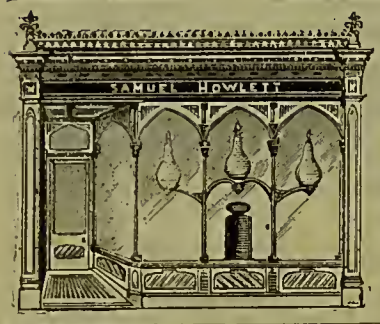
SHOP FITTERS,

GUN STREET, BRUSHFIELD STREET, BISHOPSGATE, LONDON.

NOTICE.—See the Shops recently fitted in our Modern Style, and send for Estimates for Best Work at Lowest Prices.

Burrow's Drug Stores, Westbourne Grove.
Bowden's Drug Stores, Edgware Road.
May's Drug Stores, London Wall.
Bruce's Drug Stores, Ealing.
Goss & Co.'s Drug Stores, Oxford Street.
Mr. Lewis's Drug Stores, Kilburn.
Messrs. Robson & Son's Drug Stores, Scarborough.
Lewes' Drug Stores, 64 Baker Street.
Mr. Bateman, Finchley Road.
Messrs. Thomas Brothers, Cheltenham.
Mr. Chabot, Tunbridge Wells.
Mr. Francis, Carmarthen.
Mr. Pettinger, Hampstead.
Mr. Grose, Swansea.
South Wales Drug Company, Cardiff.
Mr. Southon, Leadenhall Street.
Mr. Watson, Maryport.
Messrs. Williams & Co., Cardiff.

"A thing of beauty is a joy for ever." So is a well-fitted Shop.



Established 1830.

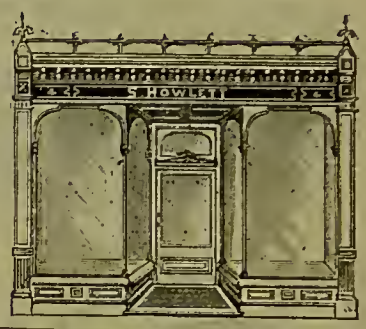
S. HOWLETT,

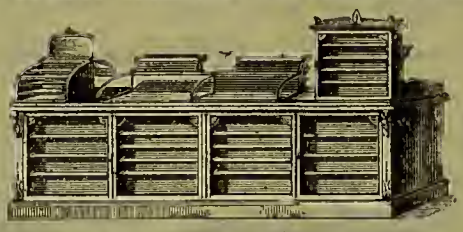
MEDICAL AND

GENERAL SHOP FITTER.

Shop-Front Builder and Show-Case Maker.

EXPORT ORDERS CAREFULLY PACKED AND SHIPPED.





SHOPS FITTED by Contract, in Town or Country, with every requisite, on the most improved principles, and at lowest prices.
NUMEROUS REFERENCES may be obtained of Leading Chemists in all parts of the Kingdom.

A LARGE STOCK of New and Second-hand Fittings and Cases to be sold very CHEAP.
CABINET FITTER to the Pharmaceutical Society of Great Britain.
PLANS and ESTIMATES SUPPLIED.

Manufactory and Showrooms—4 Lindley St., Sidney St., Mile End Road, LONDON, E.

ESTABLISHED HALF A CENTURY.

GEO. TREBLE & SON,

CHEMISTS' SHOP FITTERS.

PLANS AND ESTIMATES SUPPLIED FREE OF CHARGE.

59 AND 61 RHODES STREET, HOLLOWAY, LONDON, N.

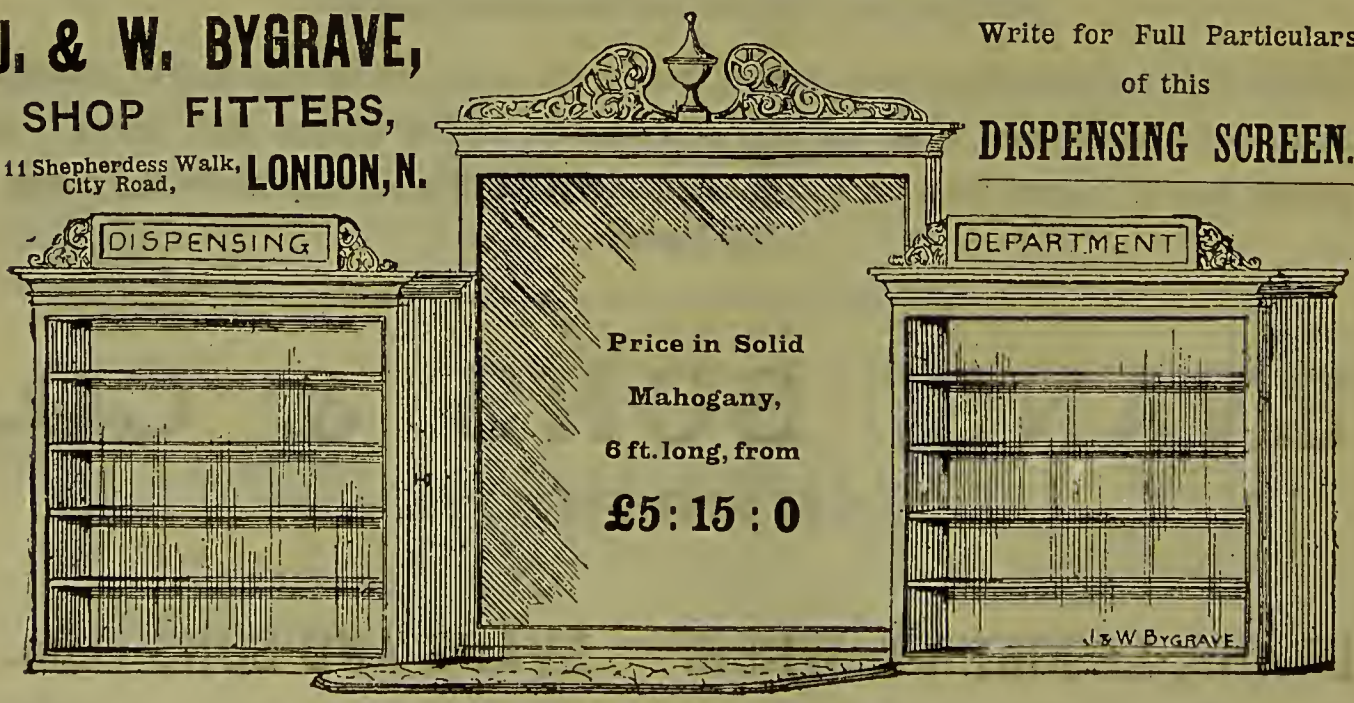
J. & W. BYGRAVE,

SHOP FITTERS,

111 Shepherdess Walk, City Road, **LONDON, N.**

Write for Full Particulars of this

DISPENSING SCREEN.



AUTUMNAL & WINTER LINES.

TINS.

Per Gross.
1*d.* Ointment .. 1/9
1*d.* Vaseline .. 1/11
2*d.* Ointment .. 2/2
2*d.* Vaseline .. 2/4
These are Silver Colour.
Special prices for large lots.

THERMOMETERS.

Clinical .. each 2/-
„ per doz. 21/-
„ super. „ 30/-
Bath, Small Wood per doz. 7/-
„ Larger „ 10/-
„ Tin Case (cheap) per doz. 7/-

PAPYROLES.

6*d.* 8*d.* 9*d.* 1/-
3/6 4/- 6/- 7/6

ALKARAM.

2/-, per doz. 17/-

PUFF BOXES.

Per doz.
6d. China 4/-
1/- „ 8/-

COMBS.

Per doz.
New Spiral (Metal) 6/-
Retails 1/-
Quite a new line.

CHEST PROTECTORS.

Scarlet Felt.
Best quality, Single—Nos.
1 2 3 4 5 6
5/9 8/- 9/6 11/6 15/6 21/6
Best quality, Double—
13/ 17/6 21/6 27/ 36/ 43/
Cheaper quality obtained to order with but little delay.

NIAGARA MILLS TOILET PAPER.

1/6 Retail, per doz. 9/-

IMPERIAL LAVENDER SMELLING SALTS.

6*d.*, per doz. 4/-

RESPIRATORS.

1/- 1/6 2/- 2/6 3/6
7/6 10/- 14/- 17/- 27/-

BRONCHITIS KETTLES.

	Small	Large
Round..	1/2	1/8
Oval ..	1/9	2/-

LIP SALVES.

1*d.* .. per gross 7/6
6*d.* Floral, per doz. 2/-

COTTON WOOL.

1/- and 1/3 lb.
Ditto Absorbent—1/-, 1/4, 1/6 lb.
Lint, 1/3, 1/8, 2/8 lb.

CEYLON TEA.

In Air-tight Lead Packets.
Retail 1/10, per lb. 1/6
„ 2/4, „ 1/10
„ 2/6, „ 2/-

FRANCIS NEWBERY & SONS
DRUGGISTS' SUNDRIESMEN,
1 & 3 KING EDWARD STREET, LONDON.

SHIRLEY'S CORNER!

REGISTERED

LOOK AT THIS CARD!

Soothers MUST Sell on such a Card.

1*d.* line, 7/- gross ; 1*d.* ring, 8/6 gross.
2*d.* „ 14/- „ wonderful value!
3*d.* „ 1/6 doz. ; 1/8, 1/10, & 2/- doz.
4*d.* „ 2/9 „
4*d.* coloured mounts, 2/9 doz.
3*d.* celluloid, 2/- doz.
6*d.* strong mount, 3/6 doz.

If you don't want bad stock, insist on head card.

NOW is the time to stock TINS for Vaseline, &c. Shirley's is the place to go to.

A 1 Tins, plain or stamped Vaseline ... ... 1/9 gross.
No. 1 gold Tins „ „ „ ... ... 1/10 „
No. 1 „ „ painted in black (Vaseline) ... 2/- „

LARGE BUYERS.—You Can't Afford to Pass us.

A FEW WINTER LINES!

Glycerine and Cucumber, 1/2, 1/10, and 3/6 doz.
Digestive Candy, 2*d.* tins, 1/3 doz.; in bulk, 10*d.* lb.
Flavouring Essences, 1*d.*, 3/6 gross ; 3*d.*, 1/9 doz., 6*d.*, 3/- doz.
1*d.* Glycerine, 1*d.* Camphorated Oil, 1*d.* Mustard Oil, &c.
A1 Menthol Cones, Etienne Frères' Perfumery, &c.

SHIRLEY BROS., 105-7 Whitecross St., E.C.

WATERPROOF FABRICS, ETC.

HOSPITAL SHEETINGS. PINK JACCONET.

BANDAGE CLOTHS. WATER-PROOF LINT.

THE VICTORIA RUBBER CO., LIM. — **Victoria Indiarubber Mills, EDINBURGH.**

London Office and Warehouse—74 and 75 FORE STREET, E.C. — Samples, &c., on application.

W. SUTTON & CO.,

76 CHISWELL STREET (late 10 Bow Churchyard), LONDON,

SOLE MAKERS OF THE

ORIGINAL BATEMAN'S DROPS & DAFFY'S ELIXIR.

Proprietary Medicines, Perfumery, Mineral Waters, Lozenges, Druggists' and Photographic Sundries.

PRICE LIST FREE ON APPLICATION.

40% PROFIT!

There is no Proprietary that will give you such a good return as "PEPSALIA"—40% on your outlay, and no "cutting," no "underselling."

A GUARANTEED PROFIT OF 8s. IN THE £.

TRY IT—IT WILL PAY YOU.

CARD SPACES.

FOR TERMS APPLY TO THE PUBLISHER.

ORANGE WINE

(VIN. AURANT., P.B.)

Specially brewed for Quinine Wine. Does not deposit, will keep good in any climate. In casks, 13 gallons to 140 gallons; small casks, 3s. 9d. per gallon, carriage allowed if paid within three months. In wine-bottles (not less than 3 doz), at 9s. per doz., bottles included. Casks and cases extra, and returnable.

Sample on application. Special quotations to large buyers.

DURRANT & CO., Railway St., HERTFORD.

PRECIPITATED CHALK, WHITEST & PUREST.

CHEAPEST SELLERS IN THE MARKET.

ALSO CHEMICALS, DRUGS AND OILS.

APPLY TO

AUG. LEVERMORE & CO., 8, LIME STREET, LONDON, E.C.

HAND-PICKED GUM ARABIC.

Wholesale and Export Druggists before buying elsewhere should apply to

FREDK. FINK & CO.

10 & 11 MINCING LANE, LONDON, E.C. [2]

ROSS'S ROYAL BELFAST GINGER ALE

Sole Purveyors to Spiers & Pond (Lim.)

CRETA BRAND G W N PRÆCIP.

Much Lighter and Finer than any other in the Market.

Prices and Samples on application to SOLE AGENTS—

H. E. Stevenson & Co.,

130 *Southwark Street, LONDON, S.E.*

JOPE'S COMBINATION

FOR LADIES.

Patent applied for. Combined Belt and Soft Turkish Towels.

"Article that Chemists may profitably handle."—(See *Chemist and Druggist*, October 6.)

For particulars apply to your Warehouse or to the Manufacturer,

V. M. JOPE, 120 Queen Victoria St., London, E.C.

THE "MORSTADT" Cachets

Are the most digestible, flexible, and elegant in the market, and are fast replacing all competitors. The Cachets are made to hold from 3 to 18½ grains Quinine or Salicylic Acid.

MORSTADT" CACHET CLOSING APPARATUS, to easily and speedily close 12 Cachets at one operation, from 12/- to 30/-.

SMALL APPARATUS, to fill and close 1 Cachet at a time, from 2/6 to 8/8.

THOMAS CHRISTY & CO., 25 Lime Street, LONDON, E.C.

E. H. THIELLAY'S (Registered 1867) EUCALYPTIA.

HYGIENE-DE-LA-TETE TRADE MARK

From "Eucalyptus Globulus." An authentic regenerator of the hair, instantly stopping its falling off, and is invaluable for hairdressing; a safeguard in epidemic times, protectingly surrounding the respiratory unctions from malarious and vitiated emanations. In Bottles at 2/6, 3/6, 4/6, 7/-, 10/-, &c.

All Wholesale Houses, or direct from

E. H. THIELLAY.

Parfumeur-Chimiste, Amersham Park, New Cross, LONDON.

(SHOW ROOMS AT CHARING CROSS HOTEL.) [2]

FLETCHERS' HYDROBROMATES.

Sole Manufacturers—

Fletcher, Fletcher and Co.,

North London Chemical Works,

HOLLOWAY, LONDON, N.

THORNTON-PICKARD

CATALOGUE POST FREE

ARE THE SIMPLEST & BEST. Time & Instantaneous SHUTTERS

LARGEST SALE IN THE WORLD

Time & Inst., from 18/6; Snap Shot, from 10/-; Focal Plane, from 35/-

THE THORNTON-PICKARD M'F'G COMPANY, ALTRINCHAM, NEAR MANCHESTER.

JUNE'S HEALTH BATH SALT.

A new refreshing and invigorating preparation which meets with a ready sale wherever introduced.

GOOD PROFIT GUARANTEED.

WRITE FOR SAMPLES & TERMS,

LANDOR, ANDERSON & CO., 165 FENCHURCH STREET, E.C.

TO LET.

NESS & COMPANY, DARLINGTON,

SPECIALISTS IN

SHEEP DIPS (Fluid, Paste, Powder) and DISINFECTANTS.

Highest Award World's Fair, Chicago, and Four Gold Medals.

WRITE FOR PARTICULARS AND SAMPLES.

VINT'S PATENT MENTHOL

3/6 & 6/6 doz.

WHICH WON'T BREAK OFF.

See page 99 in Diary.

Trade Mark "PYRAMID."

To burn 9 hours, 8 in a box,
Price, including 4 Lamps, 7/6 doz. net.

To burn 9 hours, 6 in a box,
Price, including 3 Lamps, 5/7½ „

To burn 6 hours, 12 in a box,
Price, including 4 Lamps, 8/- „

To burn 6 hours, 6 in a box,
Price, including 2 Lamps, 4/1½ „

N.B.—The Lamps are charged half-price for a limited period only.

CLARKE'S
PATENT
"PYRAMID" & "FAIRY" LIGHTS.

EXACT SIZE OF
No. 1890 "PYRAMID" LAMP and
„ 103 BRACKET.

Trade Mark "FAIRY."

To burn 10 hours, 6 in a box,
Price, including 2 Lamps, 10/6 doz. net.

To burn 6 hours, 10 in a box,
Price, including 2 Lamps, 10/6 „

N.B.—The Lamps are charged half-price for a limited period only.

RETAIL PRICE.

LAMP, 4d.

RETAIL PRICE.

ARTISTIC BRONZE

BRACKET, 6d.

Artistic Bronze

BRACKET, 6d.

LAMP, 4d.

No. 1890 "PYRAMID" LAMP in 4 colours, 3/- per doz., each packed box.

No. 103 BRACKET in Artistic Bronze, 3/6 per doz.

The Trade can be supplied for a limited period with **four** 1890 Lamps with every dozen boxes of "PYRAMID" Lights at 1½d. each (*i.e.*, half the usual price). Also **two** "Fairy" Lamps with every dozen boxes of "Fairy" Lights at **4d.** each (*i.e.*, half the usual price).

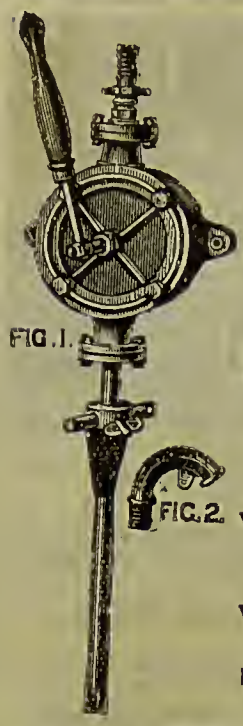
The prices and terms for "Pyramid" and "Fairy" Lights WITHOUT Lamps will be as heretofore.

N.B.—**Extra Lamps** can be obtained at the following prices, viz.:—
"Pyramid" Lamps ... ... 3/- per dozen. | "Fairy" Lamps ... ... 8/- per dozen.
With a view to prevent mistakes, when sending orders for "PYRAMIDS" or "FAIRY" Lights, please state whether WITH or WITHOUT Lamps.

One gross boxes "Pyramids" 9 hours, 8 in a box, or the equivalent in value of any other sizes of our Night Lights are sent, carriage paid, in free case, to any railway station in England, or seaport in Ireland or Scotland.

CLARKE'S "PYRAMID" & "FAIRY" LIGHT COMPANY, LTD., CRICKLEWOOD, LONDON, N.W.

THE NEW SHOWCARDS CAN BE HAD ON APPLICATION.



BUY THE BEST

OIL PUMP

AND SAVE

OIL, TIME, MONEY.

THOUSANDS IN USE.

We have bought the Stock of these Pumps from

MESSRS. PONTIFEX & WOOD,

SHOE LANE, LONDON,

Who have given up this part of their business, and it is our intention to continue same.

We hold a Good Stock, and can give Prompt Delivery.

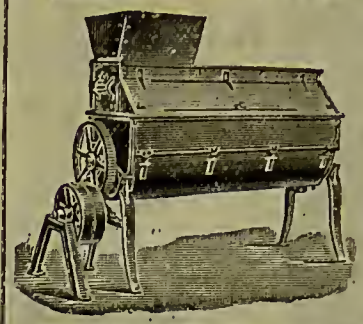
Write for full particulars and prices of The "Farringdon" Patent Oil Pumps to

W. H. WILLCOX & CO.

34 & 36 Southwark Street, LONDON. S.E.

GARDNER'S PATENT

"RAPID" SIFTERS & MIXERS



Are now working in Almost Every Trade where DRY POWDERS are Sifted and Mixed and Lumps Reduced, all being done at one operation.

For HAND or POWER

Prices from 48/- to £90.

CATALOGUES FREE.

WM. GARDNER, Engineering Works, GLOUCESTER.

THE NEW BOOT-WARMER.

Chemists are respectfully referred to page 415 of The Chemists' and Druggists' Diary, 1894, where Illustrations and mportant Press Opinions of this saleable article are given.

The *Westminster Budget* of September 5, 1893, says:—"The 'boot drier and warmer' of Messrs. Belden is an improved boot tree, by means of which boots are not only kept in shape, but heated and dried while on the tree. The necessary heat is obtained by the insertion of a small iron, which has been previously heated, into a perforated case fixed in the hollow part of the tree. A strong sock of soft material is let into the bottom of the tree, and the warmer, lying immediately on this, will become a boon to large numbers of men and women, especially to those who are obliged to be out 'in all weathers.'"

All Sizes and Shapes kept in stock or obtained on the shortest notice.

Manufactured by

E. & W. BELDEN, 167 Gt. Dover Street, Borough, **LONDON, S.E.**

To be obtained of all Wholesale Houses. [2]

£1,000,000

This is the sort of fortune many an old-fashioned Varnish Maker has left behind him, but

PINCHIN, JOHNSON & CO.

23 Billiter Street, London, E.C.

Do not aspire to these big figures, but are anxious to prove that their

VARNISHES

(In 1 Gallon Cans free) as well as their

OILS AND COLOURS

are the BEST and CHEAPEST in the Market.

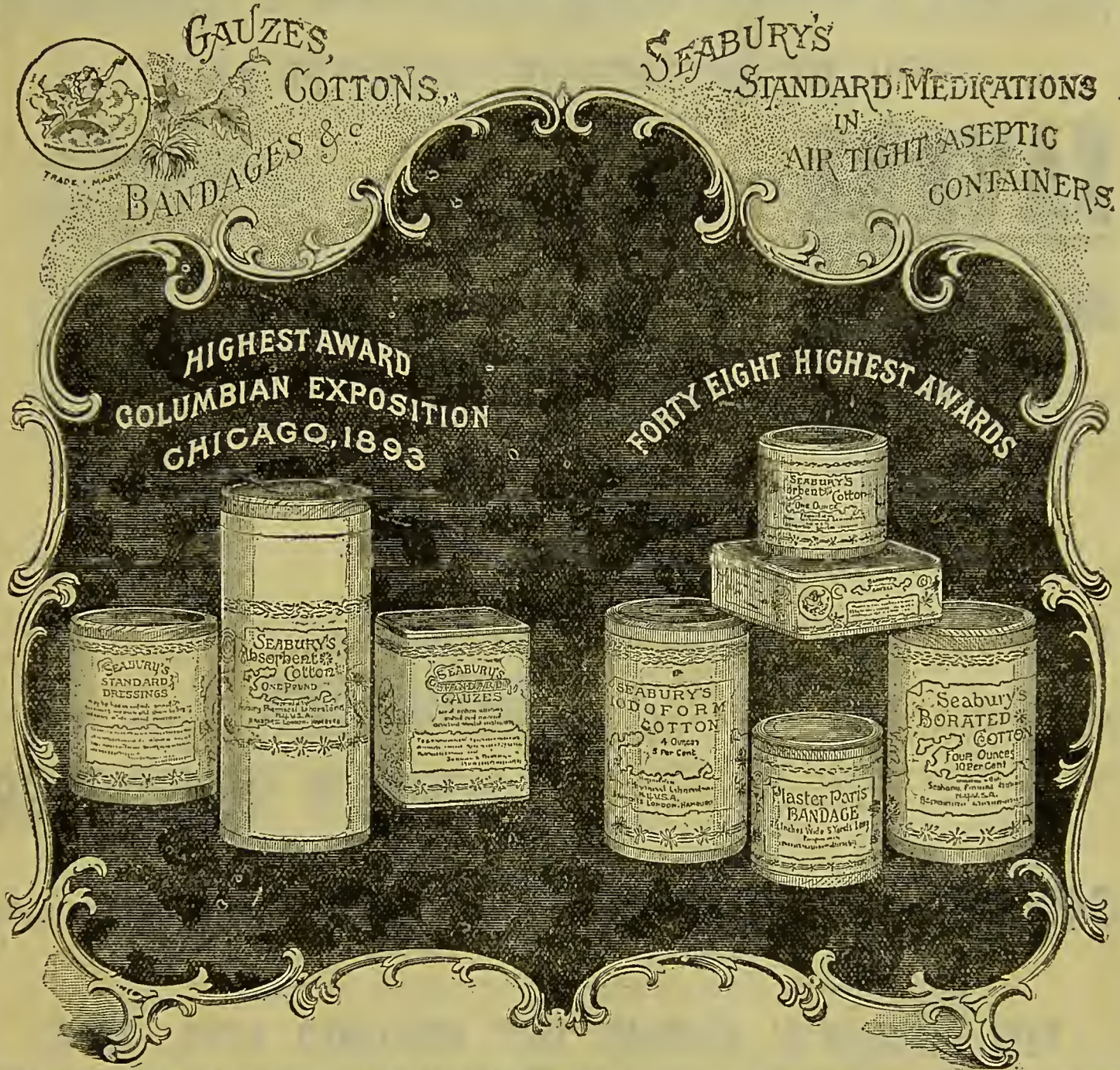
Telegrams—"PINCHIN LONDON." WRITE FOR PRICE LISTS AND SAMPLES. Telephone—No. 2241.

58

Seabury's Air-tight Aseptic Containers

By Royal Letters Patent, No. 4196, 31 March, 1894.

Superior to any other for **CHEAPNESS, ELEGANCE, LIGHTNESS, & DURABILITY.**



SEABURY'S NEW AIR-TIGHT ASEPTIC CONTAINERS, for Medicated Bandages, Cottons, Gauzes, &c., received a Special Award at the WORLD'S COLUMBIAN EXPOSITION, CHICAGO, 1893.

By their use the medication present remains unimpaired, and Surgeons may have absolute reliance that the medication named on the label is present and remains intact until the Container is opened.

In ordering it is necessary always to specify SEABURY'S, *to prevent disappointment. Reject all substitutes.*

QUALITY IS OF FIRST IMPORTANCE.

SEABURY & JOHNSON, Proprietors **SEABURY PHARMACAL LABORATORIES,**

Manufacturers of MEDICINAL AND SURGICAL PLASTERS,

ABSORBENT COTTONS, LINT, BANDAGES, OILED SILK, CATGUT and SILK LIGATURES, and every variety of SURGICAL and ANTISEPTIC DRESSINGS.

Sole Representatives Great Britain and the Colonies : **FASSETT & JOHNSON, 32 & 33 SNOW HILL, LONDON, E.C.**

SAVARS

TRADE MARK

SOLD BY REGISTERED CHEMISTS ONLY!

SAVARS

HOT WATER BOTTLES
(BEST QUALITY),

CHEST PROTECTORS
(LARGER and BETTER),

GLYCERINE JELLY
(SUPERIOR),

INHALERS
(ALL DESCRIPTIONS),

RESPIRATORS
(BEST VALUE),

WINTER REQUISITES
(ALL DESCRIPTIONS).

SAVARS as a designation of any article is a guarantee that quality is best of its class.

NEW DRUGGISTS' SUNDRIES LIST, PUBLISHED APRIL, 1894,

Largely increased, and with numerous additional Illustrations.

SUPPLIED TO ANY REGISTERED CHEMIST ON RECEIPT OF BUSINESS CARD.

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S. MAW, SON & THOMPSON'S

CHEST PROTECTORS AND VESTS

For Shielding the Lungs.

FIG. 3.
Double, for the Chest and Back.

FIG. 4.
Single, Chest Protector.

FIG. 5.
Vest, a Shield for the Lungs.

CHAMOIS AND FLANNEL.

			No. 1	No. 2	No. 3	No. 4	No. 5
Fig. 3.	Plain or Perforated ...	per doz.	19/	25/	31/	38/	46/
Fig. 4.	Plain or Perforated ...	„	8/9	11/	13/	15/	19/
Fig. 5.	Perforated — ...	„	26/	33/	40/	49/	57/

FELT.—*SCARLET, WHITE, NATURAL UNDYED WOOL, OR ASSORTED.*

			No. 1	No. 2	No. 3	No. 4	No. 5
Fig. 3.	Double, best... ...	per doz.	16/	22/	27/	32/	44/
	Ditto, second ...	„	14/	18/	23/	28/	37/
Fig. 4.	Single, best	„	7/6	9/	10/6	14/	19/
	Ditto, second ...	„	6/	7/6	9/	11/	16/
Fig. 5.	Vests	„	17/	22/	27/	33/	40/

S. MAW, SON & THOMPSON, LONDON.

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THE AUTOMATIC SIGHT-TESTING AND OPTICAL SUPPLY COMPANY (LIMITED), established to supply the Finest Glasses in the World. The Company are appointing Chemists in towns of importance as Agents for the supplying of these Celebrated Spectacles and Folders.

CHEMISTS ARE GRANTED A VERY LIBERAL COMMISSION

On our goods, and are also entitled to half the pennies deposited in our Patent Automatic Sight-Testing Machine, which is supplied to the Agent to enable the Public to readily obtain the number of their power.

Our Spectacles and Folders are supplied in sealed envelopes bearing the number on the outside, and corresponding to the power of the enclosed glasses; therefore by our system glasses are sold very like Patent Medicines, and it is not requisite to keep any large stock—Chemists thus being able to conduct the important business of an Optician in the most efficient manner possible.

Our method when assisting in treating certain diseases of the eyes requiring cylinder glasses is for the Agent to advise a visit to any Medical Man in the neighbourhood who has made a special study of Optical Surgery.

The prescriptions are sent to us by the Agent, to whom we forward the necessary glasses.

We are pleased to answer any inquiries, and upon application a form of agreement and more complete information will be forwarded.

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Oil of Neroly, Rose Water, and Orange Flower Water.

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R. HOVENDEN & SONS having purchased under an administration suit the business of the late A. S. LLOYD, with the receipt, trade-mark, and goodwill of the celebrated Euxesis, the trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY, and may be obtained at either of our Warehouses.

The label is printed with Black Ink only on a yellow ground.

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IMPORTANT REDUCTION IN PRICES.

FINEST CRUSHED LINSEED.

GUARANTEED ABSOLUTELY PURE.

NO OIL EXTRACTED, NO BUFFAM ADDED.

£14 per ton ; 15/- per cwt., carriage paid.

SIZER BROS., Seed Crushers, Tower Oil Mills, HULL.

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Warranted Healthy.

Wholesale and for Exportation. Direct from Marshes.

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Sarg's GLYCERINE.

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Supplied in square blocks, each wrapped in paper and packed in cases of 1 cwt. each.

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This old-established and increasingly favourite Dentifrice has been over Sixty Years before the Public It is warranted to retain its properties and keep in good condition in any climate. The original and only genuine is manufactured solely by

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FOR SHAVING WITHOUT SOAP, WATER, OR BRUSH.

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The labels on genuine EUXESIS bear signature of Inventor, A. S. LLOYD, in *BLACK INK*, and the signature of his Widow, AIMÉE LLOYD, in *RED INK*. Refuse all others.

Manufacturer: **AIMÉE LLOYD** (WIDOW OF A. S. LLOYD, formerly of 27 GLASSHOUSE STREET),

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PERFECTLY PURE. WRITE FOR OUR PRICES BEFORE ORDERING.

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TINCTURE SPIRIT

60 O.P. AT LOWEST PRICES. 56 O.P.

PURE ORANGE WINE.

S V M 0/61 0/64

AT LOWEST PRICES.

Special Terms to Large Buyers.

PURE GINGER WINE.

FOREIGN WINE AND SPIRIT MERCHANTS.

SOLE PROPRIETORS OF THE FAMOUS **"GLENALLAN"** PURE MALT WHISKY, 7 YEARS OLD. THE CREAM OF SCOTCH WHISKY. Per doz. 42/- Per doz.

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Quotations for **S. V. R.** *Methylated Spirit and Finish on application.*

FINEST ORANGE WINE FOR QUININE.

JAMES BURROUGH **S.V.R.** 65 O.P. 60 O.P.

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AT LOWEST PRICES.

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NO MORE SOFT LINEN WHEN STARCHED.

Used in the Royal Laundries.

Should be used in Every House.

The Greatest Boon ever offered to the Laundress for imparting an IVORY-FINISH to Starched Linen, Laces, &c. It does not stick to spider-web-like materials.

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Makes Old Linen like New.

From the Chief Laundress to H.R.H. the Prince of Wales:—West Newton, near Lynn, Norfolk, Aug. 29, 1879. SIR,—Having tried your "STARCH GLOSS," I certainly think it a great improvement—far superior to any I have tried. Yours truly,
To Mr. CRITCHLEY. E. ELDER.

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Absolutely Genuine Paraffinum Molle of the very Purest Form, and we claim that it is superior to Vaseline.

Manufactured by the Proprietors in Five distinct qualities—

WHITE, LEMON, YELLOW, GOLDEN, AND VETERINARY.

PACKED IN TINS, 1, 5, 10, 14, 28, 56, and 112 lbs.—Also in 3-cwt. casks.

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"EDIBLE SALVO PETROLIA,"

For Public Speakers, Actors, and Singers.

1*s.* 6*d.* per Tube.

"OLEUM DEELINÆ"

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Universally adopted by the Medical Profession for

OPHTHALMIA, SCURVY, RINGWORM, ECZEMA, AND ALL SKIN-DISEASES.

For External and Internal Irritation of every kind.

PACKED IN CASES—

One Doz. 1s. 6d. Bottles; One Doz. 2s. 6d. Bottles.

Pint Bottles, 4*s.* 6*d.* each, less Trade Discounts.

For Hospital and Dispensary purposes in larger quantities.

TESTIMONIALS MAY BE HAD UPON APPLICATION.

The above are Manufactured Solely by the Proprietors,

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Works—SALTNEY, CHESTER.

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The greatest Christmas Novelty for 1894 is undoubtedly the TWEED SILVERED GLOBE SCENT FOUNTAIN.

These Fountains, at first adopted by some of the leading Provincial Chemists as beautiful Counter Decorations and as choice *media* for the diffusion of Perfumes, are now becoming essential accessories to the Trade as articles of sale.

This has induced the Proprietors to make a more general offer for Agencies through the Trade Journal. Fountain plays as in cut, can be filled in a minute, plays for an hour-and-a-half, and (without removal) can be filled and played over and over again *ad libitum.* Three or four drops of pure scent added to the water will diffuse a delicious fragrance for several days.

Price ONE GUINEA; Crystal Dish, 2/6 extra.

For terms to the Trade and full particulars, apply to

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GUARANTEED PURE

CERESINE WAX

Can now be had in single cases from their London Stock.

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TOBACCO AND CIGARS, "MIXED PARCELS."

Every Requisite for the Smoker in One Order.

MINIMUM OF TROUBLE. MAXIMUM OF PROFITS.

Every known Manufacturer's Packet Tobaccos and Cigarettes at their List Prices. Foreign Cigars and Tobacconists' Fancy Goods at Importers' Prices. Carriage paid on parcels of £2 upwards to any station in the United Kingdom.

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COMPOSITION ESSENCE

FULL STRENGTH & FINE AROMA.

This Popular Preparation shows no signs of losing its hold upon the public taste,

NOTWITHSTANDING

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Our article is of first-rate quality, and never varies in constitution. It gives the greatest satisfaction.

PRICES:

IN BULK.

Per lb., **10d.**; W. Qts., per lb., **9½d.**; 10 Gall. Casks, per lb., **8½d.**

SPECIAL STRENGTH, per lb., **1/6**; W. Qts., per lb., **1/4.**

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4 oz. (1/- size) at **4/6** per dozen. An exceptionally cheap and well-got-up line; labels in colours, with cardboard outer. 6*d.* size (panelled bottle, wrapped), **3/-** per dozen.

GINGER WINE ESSENCE.

Made from the finest Jamaica Ginger for the immediate production of a delicious stimulating Temperance Beverage.

THE DRINK FOR EVENING PARTIES, WINTER GATHERINGS, &c.

Does not infringe the requirements of the Excise Regulations, and may be sold without fear.

1/- lb.; W. Qts., 10d. lb.; 6d. bottles, 4/- dozen; 1/- bottles, 7/- dozen.

FLEXIBLE MEDICINAL CAPSULES.

PACKED IN SUPERIOR STYLE IN OVAL CARD BOXES (36) AND ROUND TIN BOXES CONTAINING 24 CAPSULES.

FILLED WITH PUREST DRUGS AND FINEST OILS.

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GREAT REDUCTIONS IN PRICES. PLEASE COMPARE.

PROPRIETORS AND MANUFACTURERS:

POTTER & CLARKE, WHOLESALE BOTANIC DRUGGISTS,

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PET DOG CAKES.

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7-lb. or 14-lb. Tins or Boxes, or in ¼-cwt., ½-cwt. or cwt. Cases.

ASSIST DENTITION & FORM A VALUABLE DIET FOR PUPPIES AFTER WEANING

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7-lb. or 14-lb. Tins or Boxes, or ¼-cwt. ½-cwt., or cwt. Cases.

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OR YOUR WHOLESALE HOUSE.

DAY, SON & HEWITT,

LARGEST MAKERS IN THE WORLD OF

HORSE & CATTLE MEDICINES.

THE GREATEST ANIMAL RESTORATIVE OF THE AGE.

For Fret, Colic, or Gripes in Horses, Hoven or Blown Cattle and Sheep, and General Debility in Stock. Of exceptional value for Colds, Chills, Scour, Diarrhœa, &c., &c.

Price 1s. 9d. per Bottle; 20s. per dozen.

THE CHEMICAL EXTRACT.

For Kicks, Cuts, Bruises, Sore Withers, Swellings, Strains of Ligaments and Tendons, Saddle Galls, &c. It rapidly relieves Straining and Paining after Calving and Lambing, and is the remedy for Swollen Udders and Sore Teats.

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Used as Laudanum for parturition in Mares, Cows, and Ewes, when there is great pain exhibited with feverish symptoms. Highly beneficial for Inflammatory Colic or Enteritis, and for severe forms of Diarrhœa.

Price 3s. 6d. per Large Bottle.

THE RED DRENCH.

For Colds, Indigestion, Costiveness, Yellows, Surfeits, Loss of Cud, Pleurisy, Hidebound, Red Water, &c. For cleansing and checking feverish symptoms in Cows and Ewes after parturition.

Price (Cows) 13s. per doz.; (Ewes) 3s. 6d. per doz.

THE "ORIGINAL"
STOCK-BREEDER'S MEDICINE CHESTS,
For Horses, Cattle, and Sheep. Prices, £1 8s. 9d. and £2 16s. 6d.

THE "ORIGINAL"
HORSE-KEEPER'S MEDICINE CHESTS,
For all ailments in Horses. Prices, £1 10s. and £2 17s. 6d.

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Liberal Discounts to Foreign Buyers. Trade Terms and full particulars on application.
Attractive Show-cards and Handbills sent with each order.

FEVER AND SMALL POX HOSPITALS, CANAL BOATS, &c.

Uniform Quality and Strength Guaranteed.

Edwin Turner, Esq., M.R.C.S.L., L.A.S., Medical Officer of Health, Stourbridge Union Rural Sanitary Authority, writes 13th June, 1894:—

"I consider Odams' Carbolic Powder a very potent and genuine article. I have used it with much satisfaction in Fever and Small Pox Hospitals."

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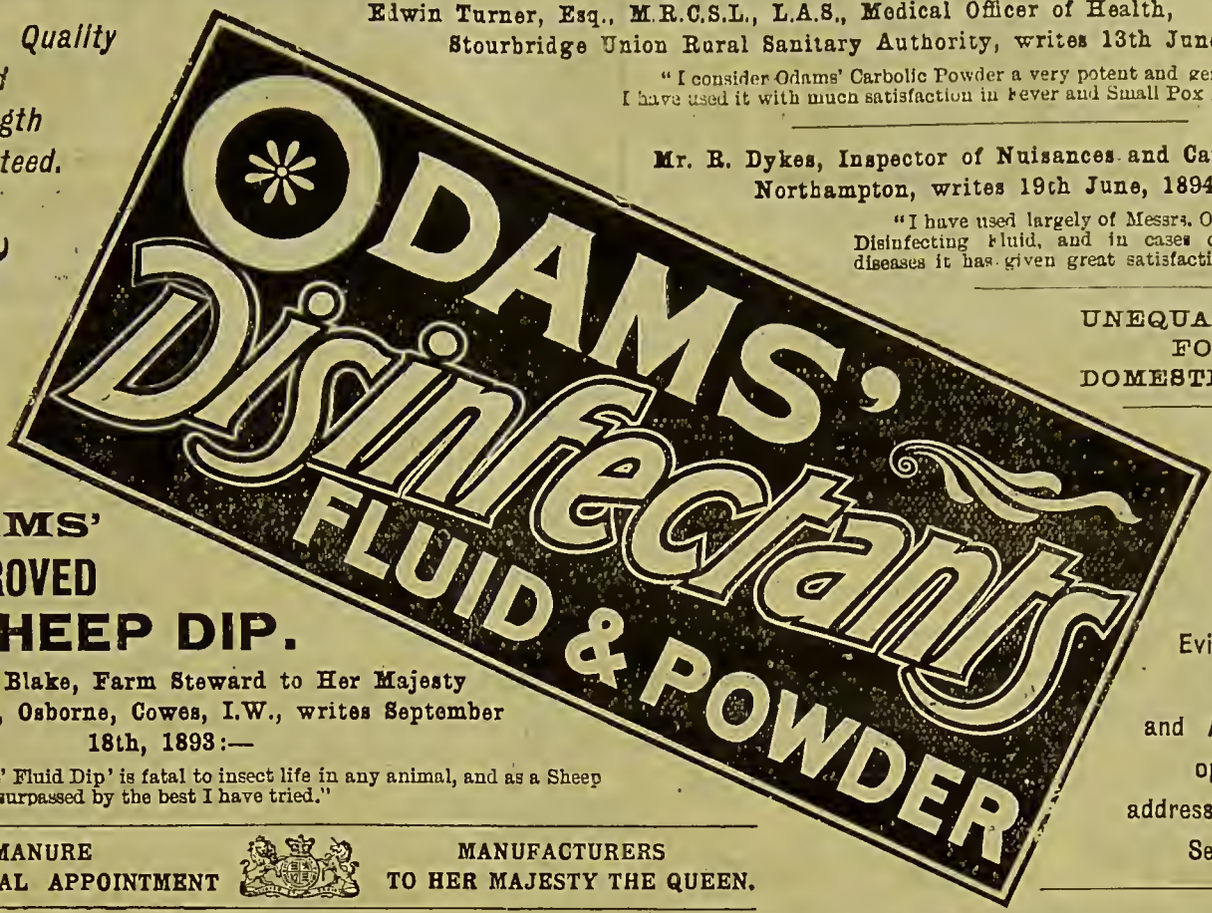
"I have used largely of Messrs. Odams & Co.'s Disinfecting Fluid, and in cases of infectious diseases it has given great satisfaction."

UNEQUALLED FOR DOMESTIC USE.



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Andrew Blake, Farm Steward to Her Majesty the Queen, Osborne, Cowes, I.W., writes September 18th, 1893:—

"'Odams' Fluid Dip' is fatal to insect life in any animal, and as a Sheep Dip it is not surpassed by the best I have tried."

For Evidence of Value and Agencies open, address the Secretary.

MANURE BY SPECIAL APPOINTMENT MANUFACTURERS TO HER MAJESTY THE QUEEN.

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IN AIRTIGHT, WATERPROOF & ODOURLESS PACKAGES.

SILVER MEDAL I.H.E. 1884.

LIST OF PRICES.

24 lb. Box	1 lb.	6/6
24 lb. "	½ lb.	7/-
24 lb. "	¼ lb.	8/-
24 lb. "	(ASSORTED 1 lb. ½ lb. & ¼ lb.)	7/3
24 lb. "	1 GROSS 1p.	8/-

TO BE HAD FROM ALL WHOLESALE DRUGGISTS!

NATIONAL CHEMICAL Co. LONDON.

"THE ONLY GENUINE"

GOVERNMENT DISINFECTANT

CARBOLIC POWDER

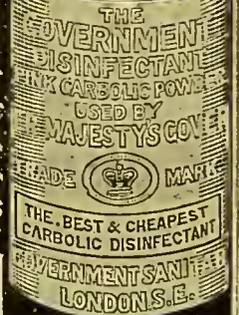
CHEAPEST AND BEST HOUSE FOR CARBOLIC POWDER IN TINS

"PINK" IN DECORATED TINS

PRICES.		PER GROSS
GREEN & BLACK 15%	6d Size	45/-
	1/- "	90/-
BLACK & GOLD	6d Size 1 lb.	40/-
	1/- " 2 lb.	60/-

ALSO IN CASKS & PACKAGES FLUIDS, ACIDS, SOAPS ETC

TO BE HAD FROM ALL WHOLESALE DRUGGISTS



THE GOVERNMENT SANITARY Co LONDON

"MAZELLA" TOILET ROLL

Per **24/-** Gross

THE BRITISH P. P. PAPER CO. BANNER ST. GOLDEN LANE E.

NORTH OF ENGLAND SCHOOL OF CHEMISTRY & PHARMACY,

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PRINCIPAL—

GEORGE F. MERSON, PHARMACEUTICAL CHEMIST

(First Major Pass under extended and advanced Syllabus, January, 1892).

NOTE NEW ADDRESS: 55 NORTHUMBERLAND ST.

National Telephone 6531. (*Opposite Mr Bolam's Pharmacy*).

Owing to the steady and rapid increase in the number of Students attending this School, it has been necessary, in order that past efficiency might be maintained, to acquire more accommodation. To attain this object, also for the convenience of the large number of Country Students who attend the Classes, Mr. Merson has leased premises at 55 Northumberland Street, to which the Classes will be removed early in November.

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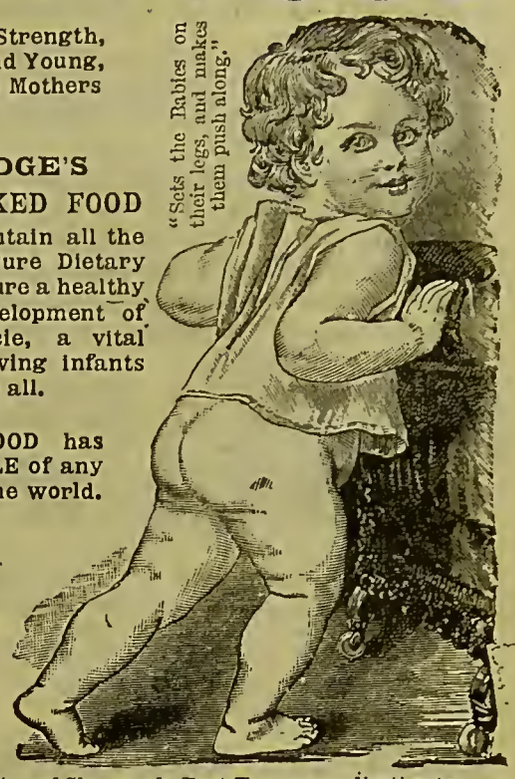

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TOWER TEA

HIGHEST AWARD, PARIS, 1889.

Analysis by the "LANCET," December 20th, 1890:—

"We have submitted to examination the Teas of the Great Tower Street Tea Company (Limited). They all yield liquors which are generous to the taste, and of full strength and vigour. The results of our analysis indicate the purity and genuineness of the samples."

Where Vacancies exist, Agencies are appointed by

PRIZE MEDAL, PARIS, 1889.

THE GREAT TOWER STREET TEA CO., LIMITED

5 JEWRY STREET, LONDON, E.C.

VINEGAR

COMMANDS A PREFERENCE OVER ALL OTHERS.

WORKS { Corner of Old Street and City Road, } LONDON.

ESTABLISHED OVER 200 YEARS.

NEEDS NO GUARANTEE.

BOVRIL

THE VITAL PRINCIPLE OF PRIME OX BEEF, IS 50 TIMES MORE NOURISHING THAN ORDINARY EXTRACT OF MEAT OR HOME-MADE BEEF TEA.

Baron Leibig discovered and publicly avowed the unsuitableness of Meat Essences, Meat Extracts, and home-made Beef Tea as resuscitating agents or as food in any direct sense.

Bovril was introduced to supply the nourishment so conspicuously absent in these preparations, and this is secured by the introduction of albumen and fibrine (or rather the entire lean of beef) desiccated at a low temperature by special process, and subsequently pulverised to a minute degree of subdivision. By this means the entire nourishment of animal food is adapted to the feeblest and most sensitive stomach, and perfect assimilation is secured with the least possible expenditure of vital energy.

INVALID BOVRIL

Is specially prepared for use in the Sick Room. It is put up in porcelain jars and sold by chemists and druggists only; and it differs from ordinary Bovril in being more concentrated and quite devoid of seasoning.

It is the most perfect form of concentrated nourishment at present known, and is enjoyed by Invalids when ordinary food and stimulants are rejected.

BOVRIL, Ltd., Food Specialists, LONDON.

Chairman—Rt. Hon. Lord PLAYFAIR, K.C.B., LL.D.

BY HER MAJESTY'S ROYAL LETTERS PATENT.

CÉREBOS ?

Recent Scientific and Influential Opinions.

From SIR CHARLES A. CAMERON, M.D., D.P.H. Cambridge, F.R.C.S.I., M.R.C.P.I., F.I.C., Professor of Chemistry, R.C.S.I., Medical Officer of Health for Dublin, City and County Analyst:—

"I have carefully examined a specimen of 'Cérebos Salt' prepared by the Cérebos Salt Co., Ltd., Newcastle-on-Tyne. It includes a substantial proportion of Phosphates, such as are necessary to the formation of bone and muscle. I consider it a very nice form in which to take the Salt as a condiment, whilst at the same time introducing to the system valuable Phosphates."

From T. H. WALKER, L.R.C.P., F.C.S., &c., Extraordinary Member of the Royal Medical Society; Public Analyst for the City of Carlisle; late Medical Officer for Longtown:—

"Cérebos Salt. This preparation (being a food) can be taken with absolute safety, and generally with great benefit, by persons of all ages, and it will be of especial advantage to young and delicate children."

From A. BLAIR, M.B., C.M., Ashington, Northumberland:—

"Cérebos Salt. On the sound basis of chemical analysis and physiological principle, I am freely recommending it for general and constant use. In my own household no other is used."

PRICES 6d. and 1s.

Full Particulars and Samples Free. (Correspondence invited.)

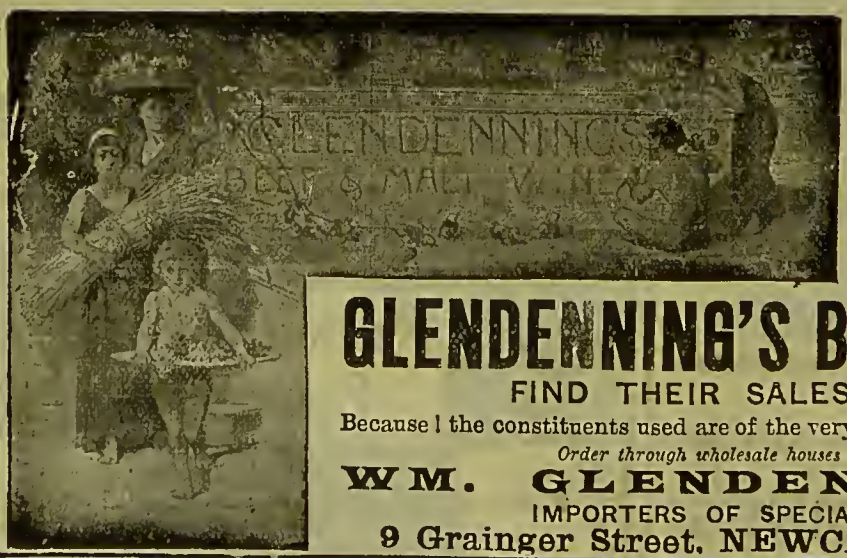
CÉREBOS SALT CO., Ltd.

NEWCASTLE-ON-TYNE, & 134 UPPER THAMES ST., LONDON, E.C.

A. MILLAR & CO., DUBLIN

PURE ORANGE WINE

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopœia.



QUALITY

BRINGS ITS OWN REWARD.

THOSE WHO SELL

GLENDENNING'S BEEF & MALT WINE

FIND THEIR SALES INCREASE. WHY?

Because the constituents used are of the very finest quality, and the public are finding it out.

Order through wholesale houses or direct from Sole Proprietors—

WM. GLENDENNING & SONS,

IMPORTERS OF SPECIAL WINES FOR INVALIDS.

9 Grainger Street, NEWCASTLE-ON-TYNE. Established 1867.

HIRST, BROOKE & HIRST (LIM.), LEEDS,

Manufacturing Chemists and Wholesale Druggists, Manufacturers of

ORANGE WINE

Of Finest Flavour and Quality, and specially suitable for the Preparation of Orange Quinine Wine.

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WORCESTER, READING, HARVIE, YORKSHIRE, AND "BOROUGH" KETCHUP.

SILVER MEDAL.

	Per gross.	Extra quality.
1d. Sample Bottles, dozen parcels	5/3	6/3
" " ½-gross boxes	5/9	6/9
1d. Giant " dozen parcels	6/-	8/6
" " ½-gross boxes	6 6	9/-

	Per gross.	Extra quality
½ Bottles, flat or round, reputed half-pints	16/-	28/-
¾ " " " pints	28/-	38/-
1 Pint Imperial, round stoppered bottles	52/-	62/-
12½-Gallon Casks (*casks free*) each	20/-	32/-

ROYAL CAFE SAUCE, a Rich Fruity and Exquisite Flavour.

Square Glass Stoppered Bottles, containing nearly ½-pint Imperial, 42/- per gross. Sample Bottles at 7/- per gross.

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CHIEF SCOTCH AGENCY — West Nile Street, GLASGOW.

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THE CHEMISTS' LIQUORICE JUICE.

"THE BEST AND PUREST."

Larger sale than any other first-quality juice. To be had of all Wholesale Houses.

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COMMANDS A PREFERENCE OVER ALL OTHERS.

WORKS { Corner of Old Street and City Road, } LONDON.

ESTABLISHED OVER 200 YEARS.

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PRICES.

SYPHONS ... 1/6 1/8 and 1/10 each.

SELTZOGENES.

1	2	3	4	5	8 pint.
6/-	6/8	7/6	8/6	10/5	16/- each.

Including two funnels and stopper for charging.

The tops of these Seltzogenes are made of pure block tin, guaranteed

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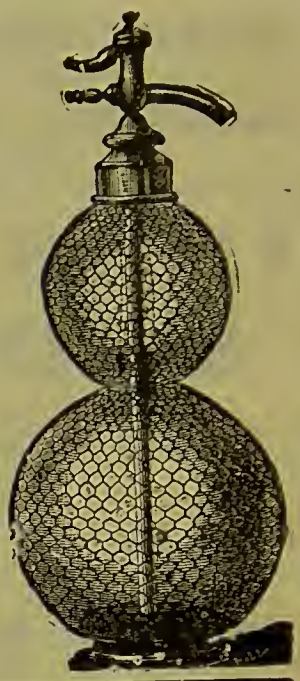
All our Seltzogenes are manufactured on the well-known "Fevre" System, and each one is thoroughly tested before leaving the works.



LIST OF

MASON'S EXTRACTS

AND

WINE ESSENCES.

EXTRACT OF HERBS	LEMONINE
" " DANDELION	CIDERINE
" " SARSAPARILLA	HOREHOUNDINE
" " HOPS	FOAMINE
" " GINGER	WINTER EXTRACT
" " GINGER ALE	

Mason's Wine Essences.

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ORANGE	PORT
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PINE APPLE	"WARMINE"

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Manufacturing Chemists,

HYSON GREEN WORKS, NOTTINGHAM.

22

PERRIER-LAURENT

Coca-tonic

A high-class Wine and powerful Nerve Restorative

Prepared by Laurent-Perrier, Bouzy-Reims.

2/-, 3/9, and 7/-

Champagne

Chemists are requested to write for Show Tablets, Trade Terms, and Special Plan of Introduction in country and town, to the Sole Consignees—

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BARNETT & FOSTER,

MANUFACTURERS.

THE "COMPACT" CONTINUOUS-ACTION SODA-WATER MACHINE.

GOLD MEDAL International Food Exhibition, 1891.
GOLD MEDAL, BATAVIA, 1893.

Specially designed for use where space is an object, and for those having a large retail trade, such as Chemists, Hospitals, Restaurateurs, Hotel Proprietors, &c. They are ready for work immediately, require no fixing, and produce Aërated Waters of the very highest quality at a minimum of cost.

NO DANGER. NO MESS. PERFECTLY RELIABLE.

NOTE.—These Machines are not toys, but thoroughly well-made Machines, and will last many years with hard working. We guarantee to produce a better article with these than any other system adapted for using the Liquefied gas, and at a lower pressure, thus effecting an immense saving in broken bottles, and also reducing risk of accidents.

No. 1 Size, complete with Turnover or Syphon-filling Machine, and fitted with fast and loose Pulleys for driving by power ... ... Code Word (*Compact*) **£60**

Producing Capacity by Hand-power 600 doz. per day.
" " Power 1,200 " "

No. 2 Size, complete with Turnover or Syphon-filling Machine ... ... Code Word (*Tocom*) **£48**

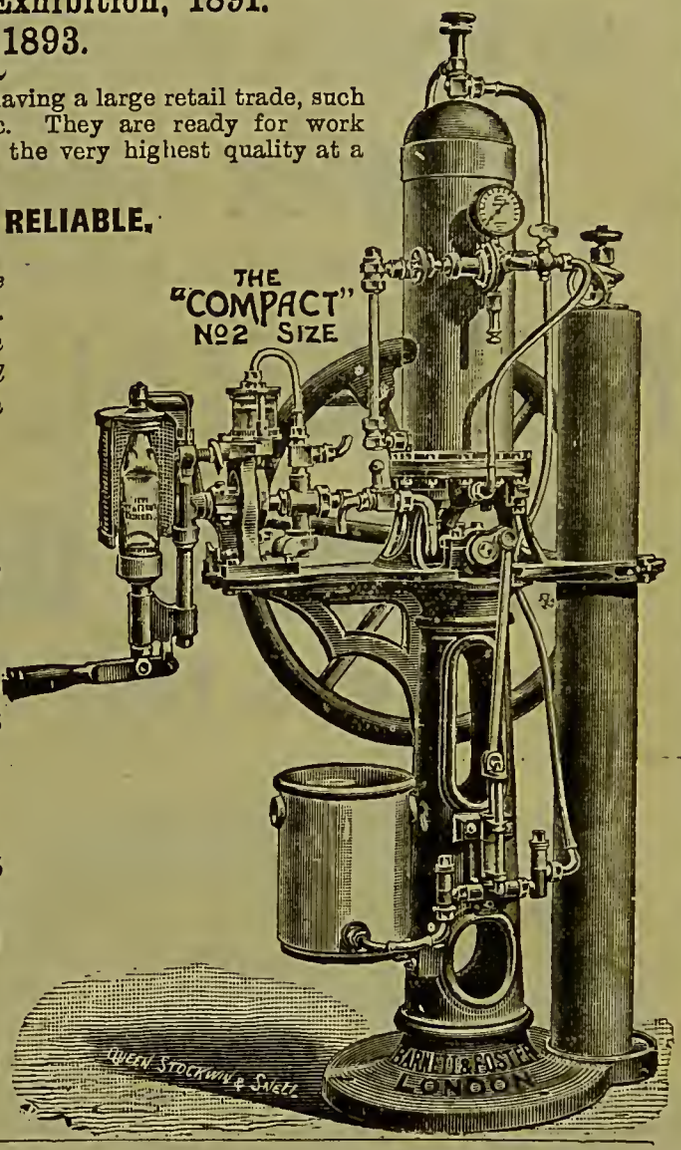
Producing Capacity by Hand-power 350 doz. per day.
" " Power 700 " "

No. 3 Size, complete with Turnover or Syphon-filling Machine ... ... Code Word (*Chemicus*) **£35**

Or without Syrup Pump to Turnover Machine Code Word (*Retailer*) **£33**

Producing Capacity by Hand-power 200 doz. per day.

In use by Leading Chemists in all parts of the United Kingdom.



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"NIAGARA" BOTTLE

IS THE

STRONGEST,
CLEAREST,
AND BEST

Ball-stoppered Bottle in the Market.

SAMPLES FREE.

PRICES ON APPLICATION.

THE

"LONDON-MADE"

SYPHON

Pure Tin Tops and Best Bohemian Glass Vases. The Cheapest, Strongest, Handsomest, and Best in the World.

PRICE 1/6 EACH.

Send for Sample and Compare.

ONE PRICE ONLY, and the BEST QUALITY at that.

NOTE! We are Manufacturers, NOT Agents.

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JEWSBURY & BROWN

Have pleasure in announcing that they have removed to New Premises at

ARDWICK GREEN, MANCHESTER,

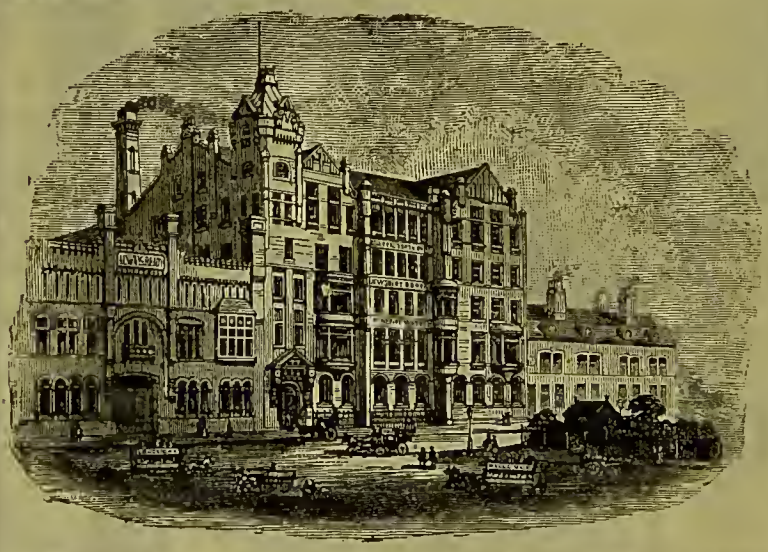
WHICH HAVE BEEN SPECIALLY DESIGNED FOR THE MANUFACTURE OF

MINERAL WATERS,

AND

BREWED GINGER BEER,

Aërated Beverages.



The LABORATORIES, MACHINERY and APPLIANCES are THOROUGHLY UP TO DATE and the Water Used comes only in contact with Pure Tin and Slate thus absolutely avoiding any dangerous metallic contamination. As heretofore, only the Finest Qualities of Materials will be used in every department, relying on the quality of our productions to ensure for them a preference with the consumer who requires a safe and refreshing beverage of absolute purity.

Chemists who have not Stocked these Waters are invited to write for Prices.

CARRIAGE PAID ON WATERS & RETURNED EMPTIES.

JEWSBURY & BROWN, Mineral Water Manufactory, ARDWICK GREEN, **MANCHESTER**

ORDERS FOR EXPORT AND SHIP STORES RECEIVE SPECIAL ATTENTION.

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ADVERTISERS' AND BUYERS' REFERENCE LIST AND INDEX TO ADVERTISEMENTS.

INDEX TO ADVERTISEMENTS APPEARING IN THIS ISSUE.

NOTE.—The Folios shown in this Index are those at the FOOT of the Page, and not at the Top. This arrangement is necessary in order to meet the requirements of the Post Office.

	Foot of Page
Advertising Balloon Co.	45
Anglo-American Drug Co. (Lim.)	43
Apollinaris Co.	*Cover*
Armour & Co.	29
Australian Drug Co. (Lim.)	41
Automatic Sight Testing Co.	4
Ayrton & Saunders	49
Barclay & Sons (Lim.)	15, 27
Barnett & Foster	23
Barrett, R. H	46
Belden, E. & W.	58
Berdoe & Co.	*Coloured Supplement*
Bleasdale & Co.	42
Blondean & Co.	5
Blyton, Astley & Co.	30
Boehm, F.	8
Boehringer & Söhne	42
Boissy	*Text* 710
Boord & Son	9
Boulton, J., & Co.	19
Bovril (Lim.)	20
Bowling & Govier	51
Bow's, Dr., Liniment	45
Bratby & Hinchliffe	22
Brett, F. J.	*Coloured Supplement*
British Paper Co.	13
Browne, T. B.	*Text* 710
Browning & Co.	16
Burrough, James	9
Burroughs, Wellcome & Co.	32, 33, 34
Bygrave, J. & W.	54
Cadbury Bros.	*Cover*
Cerebos Salt	20
Champion & Co.	21
Christy, T., & Co.	56
Clarke's Fairy Light Co.	57
Corsan, J. R.	52
Cox, A. H., & Co.	36
Critchley, T.	9
Crocker, G. B.	*Coloured Supplement*
Currie & Co.	50
Davis, J.	15
Davis, J., & Co. (Lim.)	15
Day, Son & Hewitt	12
De St. Dalmas, A. E.	52
Dee Oil Co.	10
Di Luggo, D., & Co.	21
Durrant & Co.	53
Edwards & Son	44
Eschmann Bros. & Walsh	52
Evans & Sons (Lim.)	*Cover* 17, 53, 60
Evans, Lescher & Webb	*Cover* 17, 53, 60
Evans, Sons & Co.	*Cover* 17, 53, 60
Exchange Column	16
Felton, Grimwade & Co.	42
Fink, F., & Co.	56
Fitch & Nottingham	8
Fletcher, Fletcher & Co.	56, *Text* 710
Gardner, W.	58
Gibson, R., & Son	18
Glendenning, W., & Sons	20
Goodall, Backhouse & Co.	19
Government Sanitary Co.	13
Great Tower St. Tea Co.	21
Haggerty, C. E.	44
Hargreaves, Dr.	14
Harker, Stagg & Morgan	38
Heine, Joseph, & Co.	19
Hertz & Collingwood	22
Hirst, Brooke & Hirst (Lim.)	20
Hockin, Wilson & Co.	51
Holloway, Professor	15
Homocea	36
Hooper & Co.	*Cover*
Hora & Co.	*Text* 710
Hovenden & Son	8
Howlett, S.	54
Hubbuck, T., & Son	38
Incandescent Gas Light Co.	46
Isaacs, I., & Co.	46
Izal	42
Jewsbury & Brown	8, 24
Jope's Combination	56
Josephs, Philip	16
Kay Bros.	39
Kempthorne, Prosser & Co.	41
Krohne & Sesemann	15
Kilner Bros.	47
Kuhn, B.	38
Latoc, Dr.	44
Lander, Anderson & Co.	56
Lanoline	33
Leconte, E.	43
Lennon, B. G., & Co. (Lim.)	40
Levermore, A., & Co.	56
Lloyd, A. S.	9
Lofthouse & Saltmer	39
Loisette, A.	14
London Homœopathic Hospital	15
Mackenzie Cure	44
Manchester College	14
Maw, S., Son, & Thompson	3
May & Baker (Lim.)	*Cover*
May, Roberts & Co.	*Cover*
Metropolitan College	14
Millar, A., & Co.	20
Moss, R. J.	*Text* 710
Muhlens, F.	6
National Chemical Co.	13
Ness & Co.	56
Newball & Mason	22
Newbery, F., & Son	55
Nicholls, G. W.	56
Northern School	14
North of England School	14
Nortons (Lim.)	36
Odams' Chemical Co.	13
Oppenheimer, Sons & Co. (Lim.)	31
Pears, A. & F. (Lim.)	35
Pfister, F.	10
Phillips, G., & Co.	9
Pinchin, Johnson	58
Potter & Clarke	11
Prosser, Taylor & Co.	40
Ransom, W., & Son	7
Raphael, J., & Co.	16
Richardson, J., & Co., Leicester (Lim.)	37
Ridge's, Dr., Food	19
Robbins & Co.	42
Robinson & Sons (Lim.)	48
Ross & Sons (Lim.)	36
Sanger & Sons	45
Sanitas, The, Co. (Lim.)	*Text* 710
School of Pharmacy, The	14
Seabury & Johnson	59
Shirley Bros.	55
Silverlock, H.	15
Singleton & Cole	10
Sizer Bros.	8
Smith, T. & H., & Co.	39
Solport Bros.	50
Soul, W. H., & Co.	40
Sozio & Andrioli	7
Spratt's Patent (Lim.)	12
Squire, P. W.	14
Stern, G. & G.	55
Stevenson, H. E., & Co.	56
Stipendum Stopper Co.	46
Sutton, W., & Co.	55
Taylor, F. H., & Co.	46
Thiellay, E. H.	56
Thornton-Pickard Co.	56
Todd, A. M.	6, *Text* 710
Tomlinson, T.	*Coloured Supplement*
Toogood, W.	48
Trade Mark Society	*Text* 710
Treble, G., & Son	54
Tweed Fountain Co.	10
Tyrer, P.	21
Vaccine Association	52
Victoria Rubber Co.	55
Vint, T. D.	56
Wand, S.	36
Warrick Bros.	7
Washington Chemical Co. (Lim.)	39
Wilcox, W. H., & Co.	58
Wilkinson & Co.	45
Wood, V.	52
Wright, Layman & Umney	34
Wyeth, J., & Bro.	28
Young, H.	15

CLASSIFIED LIST OF ALL ADVERTISERS

Whose Announcements appear in "THE CHEMIST AND DRUGGIST." Those whose Names do not appear in the preceding Index are published in one of the other issues of this month.

ACETIC ACID
Lorenz, H.
Morris & Callard (Salts)

ACIDS
Boulton, J., & Co., Lim.

ADVERTISING SPECIALITIES
Caspar & Co., Lim.
Corsan, J. R.
Harris, J.
Sears, F. W.

AERTD & MINRLS
Apollinaris Co.
Barnett & Foster
Bratby & Hinchliffe, Lim.
Chemists' Aërated Waters Association, Lim.
Ellis & Son (Ruthin)
Idris & Co., Lim.
Ingram & Royle
Jewsbury & Brown
Mills & Co. (Bourne)
Oberbrunnen
Pickardt & Co.

DITTO PLANT
[See SYPHONS and ESSENCES.]
Barnett & Foster
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Rylands, Dan, Lim.
Tyler, Hayward, & Co.

AGNCIES ABROAD
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Boissy
Kempthorne, Prosser & Co.
Lennon, B. G., & Co. [(N.Z.)
Peake, Allen & Co.
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Seul, W. H., & Co.

ALKALOIDS
Howards & Sons (Cinchona)
Macfarlan, J. F., & Co.
Smith, T. & H., & Co.

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Davis, J.

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Bennett, Sons & Shears
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De Grave, Short, Farmer & Co.

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May & Baker, Lim.
White, A., & Sons
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Goodall, Backhouse & Co.

BANDAGES
Bailey, W. H., & Son
Robinson & Sons
Schutze, F., & Co.
Wood, Vincent

BATH & FLESH GLOVES
Barclay & Sons, Lim.
Chemists' Association, Lim.
Maw, S., Son & Thompson
Pattison, G. | Solport Bros.
Wood, Vincent

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Anderson & Co.
Tidman & Son, Lim.

BICARB. SODA
Brunner, Mond & Co., Lim.
Howards & Sons
May & Baker, Lim.

BISMUTH PREP.
Hearon, Squire & Francis
Hewlett & Sons
Howards & Sons
May & Baker, Lim.
Symes & Co. | Tyrer, T., & Co.
White, Alfred, & Sons

BOTTLES
Ayrton & Saunders
Barnett & Foster
Barrett, R. H.
Bratby & Hinchliffe, Lim.
Evans, Sons & Co.
Gilbertson, H., & Sons
Hearn, Wright & Co.
Isaacs & Co.
Johnsen & Jörgensen
Kilner Bros.
Lofoden Cod Liver Oil Co.
Maw, S., Son & Thompson
Poths, H., & Co.
Rylands, Dan, Lim.
Stipendum Stopper Co., Lim.
Taylor, F. H., & Co.
Toogood, W. | Youldon, E.

BOOKS
Hargreaves, Dr., M.D.
Southall's "Materia Medica"
Squire's "Companion"
Squirs, P.

BORAX
Howards & Sons
Mack's Starch

BOXES
Austin & Co. (Cardboard)
Ayrton & Saunders
Evans, Sons & Co.
Ford, Shapland & Co.
Kent, G. B., & Son
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BRUSHES
Evans, Sons & Co.
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BUNSEN BURNRS
Borend & Co.

BUTTER COLR, &c.
Boulton, J., & Co., Lim.
Crawshaw & Co.
Hatrick & Co., Lim.
Tomlinson & Hayward

CACHOUS
Bleasdale & Co.
Blyton, Astley & Co.
Raimes & Co. | Warrick Bros.

CAMPHOR
Howards & Sons
May & Baker, Lim.

CAPSULES
Dsnoual, J (Medicinal)
Duncan, Flockhart & Co.
Evans, Sons & Co.
Hatrick & Co., Lim.
Hooper, B., & Co.
Lloyd, T. Howard, & Co.
Lofthouse & Saltmer
Maw, S., Son & Thompson
Parke, Davis & Co.
Richardson, John, & Co. (Leicester), Lim
Warrick Bros
Wylcys, Lim.

CALENDARS
Ford, Shapland & Co.
Hildesheimer, S., & Co., Lim.
Speller & Co. | Townsend, J.

CARBOLIC ACID
Mason, C. E., & Co.
Wandsworth Chemical Works, Lim.

CSCRA SAGRADA
Anderson & Co.
Duncan, Flockhart & Co.
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Harker, Stagg & Morgan
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Squire & Sons
Stearns, F., & Co.

CERESINE WAX
Boehm, Fredk.
Pfister, F.

CHALK, PRECIP.
Levermore, Aug., & Co.
Morrison, R., & Co.
Nicholls, G. W.

CHEMICALS
Berger, Kahler & Co.
Boehm, Fredk.
Boehringer, C. F., & Sohne
Boulton, J., & Co., Lim.
Brunner, Mond & Co., Lim.
Burton, W., & Sons
Fletcher, Fletcher & Stevenson
Goodall, Backhouse & Co.
Hill, A. S., & Son [Clarke
Hodgkinsons, Treacher &
Howards & Sons (Pharm.)
Lofthouse & Saltmer
Lorenz, H.
Macfarlan, J. F., & Co.
May & Baker, Lim.
Morris & Callard | Moss & Co
Smith, T. & H., & Co.
Tyrer, T., & Co.
Washington Chemical Co.
White, A., & Sons
Zimmermann, A. & M.

CHECK TILLS
Gledhill, G. H., & Co.
O'Brien, Thos.
Stokes, G. R., & Co., Lim.
Voucher Check Till Co., Lim.

CHEST PROTCTRS
Ayrton & Saunders
Hockin, Wilson & Co.
Liverpool Patent Lint Co.
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Newbery, F., & Sons
Pattison, G.
Schutze & Co. | Solport Bros.
Solport Bros.
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Hebden, W. C.
National Chemical Co.

CHLORODYNE
Blyton, Astley & Co.
Davenport (Browne's)
Towle, A. P., & Son

CHLOROFORM
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Macfarlan, J. F., & Co.
Smith, T. & H., & Co.
Wright, Layman & Umney
Zimmermann, A. & M.

COCA & CHOCOLTE
Cadbury Bros. | Christy & Co

COCAINE-HYDRO.
Howards & Sons

COD-LIVER OIL
Allen & Hanburys
Burroughs, Wellcome
Evans, Sons & Co.
Hill, A. S., & Son
Hockin, Wilson & Co.
Lofoden Cod Liver Oil Co.
Lorimer & Co.
Moss, J., & Co.
Oppenheimer, Sons & Co.
Richardson, J., & Co., Lim.
Smith, T. & H., & Co.
Spratt's Patent (Dog Cakes)
Stearns, F., & Co.
Woolley, Sons & Co.
Wright, Layman & Umney

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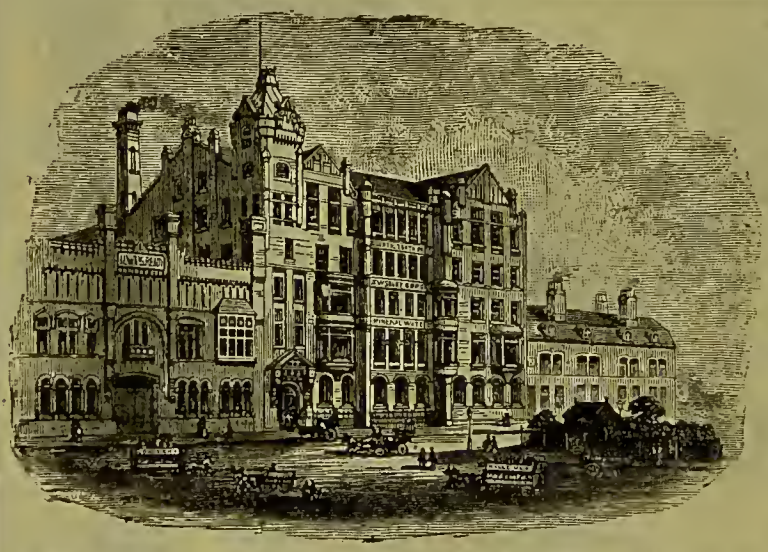
MINERAL WATERS,

AND

BREWED GINGER BEER,

Aërated Beverages.



The LABORATORIES, MACHINERY, and APPLIANCES are THOROUGHLY UP TO DATE, and the Water Used comes only in contact with Pure Tin and Slate, thus absolutely avoiding any dangerous metallic contamination. As heretofore, only the Finest Qualities of Materials will be used in every department, relying on the quality of our productions to ensure for them a preference with the consumer who requires a safe and refreshing beverage of absolute purity.

Chemists who have not Stocked these Waters are invited to write for Prices.

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ADVERTISERS' AND BUYERS' REFERENCE LIST AND INDEX TO ADVERTISEMENTS.

INDEX TO ADVERTISEMENTS APPEARING IN THIS ISSUE.

NOTE.—The Folios shown in this Index are those at the FOOT of the Page, and not at the Top. This arrangement is necessary in order to meet the requirements of the Post Office.

	Foot of Page
Advertising Balloon Co.	45
Anglo-American Drug Co. (Lim.)	43
Apollinaris Co.	Cover
Armour & Co.	29
Australian Drug Co. (Lim.)	41
Automatic Sight Testing Co.	4
Ayrton & Saunders	49
Barclay & Sons (Lim.)	15, 27
Barnett & Foster	23
Barrett, R. H	46
Belden, E. & W.	58
Berdoe & Co.	Coloured Supplement
Bleasdale & Co.	42
Blondean & Co.	5
Blyton, Astley & Co.	30
Boehm, F.	8
Boehringer & Söhne	42
Boissy	Text 710
Boord & Son	9
Boulton, J., & Co.	19
Bovril (Lim.)	20
Bowling & Govier	51
Bow's, Dr., Liniment	45
Bratby & Hinchliffe	22
Brett, F. J.	Coloured Supplement
British Paper Co.	13
Browne, T. B.	Text 710
Browning & Co.	16
Burrough, James	9
Burroughs, Wellcome & Co.	32, 33, 34
Bygrave, J. & W.	54
Cadbury Bros.	Cover
Cerebos Salt	20
Champion & Co.	21
Christy, T., & Co.	56
Clarke's Fairy Light Co.	57
Corsan, J. R.	52
Cox, A. H., & Co.	36
Critchley, T.	9
Crocker, G. B.	Coloured Supplement
Currie & Co.	50
Davis, J.	15
Davis, J., & Co. (Lim.)	15
Day, Son & Hewitt	12
De St. Dalmas, A. E.	52
Dee Oil Co.	10
Di Luggo, D., & Co.	21
Durrant & Co.	53
Edwards & Son	44
Eschmann Bros. & Walsh	52
Evans & Sons (Lim.)	Cover 17, 53, 60
Evans, Lescher & Webb	Cover 17, 53, 60
Evans, Sons & Co.	Cover 17, 53, 60
Exchange Column	16
Felton, Grimwade & Co.	42
Fink, F., & Co.	56
Fitch & Nottingham	8
Fletcher, Fletcher & Co.	56, Text 710
Gardner, W.	58
Gibson, R., & Son	18
Glendenning, W., & Sons	20
Goodall, Backhouse & Co.	19
Government Sanitary Co.	13
Great Tower St. Tea Co.	21
Haggerty, C. E.	44
Hargreaves, Dr.	14
Harker, Stagg & Morgan	38
Heine, Joseph, & Co.	19
Hertz & Collingwood	22
Hirst, Brooke & Hirst (Lim.)	20
Hockin, Wilson & Co.	51
Holloway, Professor	15
Homocea	36
Hooper & Co.	Cover
Hora & Co.	Text 710
Hovenden & Son	8
Howlett, S.	54
Hubbuck, T., & Son	38
Incandescent Gas Light Co.	46
Isaacs, I., & Co.	46
Izal	42
Jewsonry & Brown	8, 24
Jope's Combination	56
Josephs, Philip	16
Kay Bros.	39
Kempthorne, Prosser & Co.	41
Krohne & Sesemann	15
Kilner Bros.	47
Kuhn, B.	38
Lalor, Dr.	44
Lander, Anderson & Co.	56
Lanoline	33
Leconte, E.	43
Lennon, B. G., & Co. (Lim.)	40
Levermore, A., & Co.	56
Lloyd, A. S.	9
Lofthouse & Saltmer	39
Loisette, A.	14
London Homœopathic Hospital	15
Mackenzie Cure	44
Manchester College	14
Maw, S., Son, & Thompson	3
May & Baker (Lim.)	Cover
May, Roberts & Co.	Cover
Metropolitan College	14
Millar, A., & Co.	20
Moss, R. J.	Text 710
Muhlens, F.	6
National Chemical Co.	13
Ness & Co.	56
Newball & Mason	22
Newbery, F., & Son	55
Nicholls, G. W.	56
Northern School	14
North of England School	14
Nortons (Lim.)	36
Odams' Chemical Co.	13
Oppenheimer, Sons & Co. (Lim.)	31
Pears, A. & F. (Lim.)	45
Pfister, F.	10
Phillips, G., & Co.	9
Pinchin, Johnson	58
Potter & Clarke	11
Prosser, Taylor & Co.	40
Ransom, W., & Son	7
Raphael, J., & Co.	16
Richardson, J., & Co., Leicester (Lim.)	37
Ridge's, Dr., Food	18
Robbins & Co.	42
Robinson & Sons (Lim.)	48
Ross & Sons (Lim.)	36
Sanger & Sons	45
Sanitas, The, Co. (Lim.)	Text 710
School of Pharmacy, The	14
Seabury & Johnson	59
Shirley Bros.	55
Silverlock, H.	15
Singleton & Cole	10
Sizer Bros.	8
Smith, T. & H., & Co.	39
Solport Bros.	50
Soul, W. H., & Co.	40
Sozio & Andrioli	7
Spratt's Patent (Lim.)	12
Squire, P. W.	14
Stern, G. & G.	55
Stevenson, H. E., & Co.	56
Stipendum Stopper Co.	46
Sutton, W., & Co.	55
Taylor, F. H., & Co.	46
Thiellay, E. H.	56
Thornton-Pickard Co.	56
Todd, A. M.	6, Text 710
Tomlinson, T.	Coloured Supplement
Toogood, W.	48
Trade Mark Society	Text 710
Treble, G., & Son	54
Tweed Fountain Co.	10
Tyrer, P.	21
Vaccine Association	52
Victoria Rubber Co.	55
Vint, T. D.	56
Wand, S.	36
Warrick Bros.	7
Washington Chemical Co. (Lim.)	39
Wilcox, W. H., & Co.	58
Wilkinson & Co.	45
Wood, V.	52
Wright, Layman & Umney	34
Wyeth, J., & Bro.	28
Young, H.	15

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Morris & Callard (Salts)

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Corsan, J. R.
Harris, J.
Sears, F. W.

AERTD & MINRLS
Apollinaris Co.
Barnett & Foster
Bratby & Hinchliffe, Lim.
Chemists' Aerated Waters Association, Lim.
Ellis & Son (Ruthin)
Idris & Co., Lim.
Ingram & Royle
Jewsbury & Brown
Mills & Co. (Bourne)
Oberbrunnen
Pickardt & Co.

DITTO PLANT
[See SYPHONS and ESSENCES.]
Barnett & Foster
Brathy and Hinchliffe, Lim.
Rylands, Dan, Lim.
Tyler, Hayward, & Co.

AGNCIES ABROAD
Australian Drug Co.
Boissy
Kempthorne, Prosser & Co.
Lennon, B. G., & Co. [(N.Z.)
Peake, Allen & Co.
Prosser, Taylor & Co.
Soul, W. H., & Co.

ALKALOIDS
Howards & Sons (Cinchona)
Macfarlan, J. F., & Co.
Smith, T. & H., & Co.

ALMANACKS
Davis, J.

APPARATUS
Bennett, Sons & Shears
Berend, O., & Co.
Christy, T., & Co.
De Grave, Short, Farmer & Co.

AMMONIA
May & Baker, Lim.
White, A., & Sons
Woolley, Sons & Co.

BAKING POWDER
Goodall, Backhouse & Co.

BANDAGES
Bailey, W. H., & Son
Robinson & Sons
Schutze, F., & Co.
Wood, Vincent

BATH & FLESH GLOVES
Barclay & Sons, Lim.
Chemists' Association, Lim.
Maw, S., Son & Thompson
Pattison, G. | Solport Bros.
Wood, Vincent

BATH SALTS
Anderson & Co.
Tidman & Son, Lim.

BICARB. SODA
Brunner, Mond & Co., Lim.
Howards & Sons
May & Baker, Lim.

BISMUTH PREP.
Hearon, Squire & Francis
Hewlett & Sons
Howards & Sons
May & Baker, Lim.
Symes & Co. | Tyrer, T., & Co.
White, Alfred, & Sons

BOTTLES
Ayrton & Saunders
Barnett & Foster
Barrett, R. H.
Bratby & Hinchliffe, Lim.
Evans, Sons & Co.
Gilbertson, H., & Sons
Hearn, Wright & Co.
Isaacs & Co.
Johnsen & Jörgensen
Kilner Bros.
Lofoden Cod Liver Oil Co.
Maw, S., Son & Thompson
Poths, H., & Co.
Rylands, Dan, Lim.
Stipendum Stopper Co., Lim.
Taylor, F. H., & Co.
Toogood, W. | Youldon, E.

BOOKS
Hargreaves, Dr., M.D.
Southall's "Materia Medica"
Squire's "Companion"
Squire, P.

BORAX
Howards & Sons
Mack's Starch

BOXES
Austin & Co. (Cardboard)
Ayrton & Saunders
Evans, Sons & Co.
Ford, Shapland & Co.
Kent, G. B., & Son
Kilner Bros. | Maxime & Co.
Robinson & Sons
Rylands, Dan, Lim.

BRUSHES
Evans, Sons & Co.
Hovenden & Sons
Kent, G. B., & Sons

BUNSEN BURNRS
Berend & Co.

BUTTER COLR, &c.
Boulton, J., & Co., Lim.
Crawshaw & Co.
Hatrick & Co., Lim.
Tomlinson & Hayward

CACHOUS
Bleasdale & Co.
Blyton, Astley & Co.
Raimes & Co. | Warrick Bros.

CAMPHOR
Howards & Sons
May & Baker, Lim.

CAPSULES
Denoual, J (Medicinal)
Duncan, Flockhart & Co.
Evans, Sons & Co.
Hatrick & Co., Lim.
Hooper, B., & Co.
Lloyd, T. Howard, & Co.
Lofthouse & Saltmer
Maw, S., Son & Thompson
Parke, Davis & Co.
Richardson, John, & Co. (Leicester), Lim
Warrick Bros
Wylcys, Lim.

CALENDARS
Ford, Shapland & Co.
Hildesheimer, S., & Co., Lim.
Speller & Co. | Townsend, J.

CARBOLIC ACID
Mason, C. E., & Co.
Wandsworth Chemical Works, Lim.

CSCRA SAGRADA
Anderson & Co.
Duncan, Flockhart & Co.
Evans, Sons & Co.
Ferris & Co.
Harker, Stagg & Morgan
Moss, J., & Co.
Parke, Davis & Co.
Squire & Sons
Stearns, F., & Co.

CERESINE WAX
Boehm, Fredk.
Pfister, F.

CHALK, PRECIP.
Levermore, Aug., & Co.
Merrison, R., & Co.
Nicholls, G. W.

CHEMICALS
Berger, Kahler & Co.
Boehm, Fredk.
Boehringer, C. F., & Sohne
Boulton, J., & Co., Lim.
Brunner, Mond & Co., Lim.
Burton, W., & Sons
Fletcher, Fletcher & Stevenson
Goodall, Backhouse & Co.
Hill, A. S., & Son [Clarke
Hodgkinsons, Treacher &
Howards & Sons (Pharm.)
Lofthouse & Saltmer
Lorenz, H.
Macfarlan, J. F., & Co.
May & Baker, Lim.
Morris & Callard | Moss & Co
Smith, T. & H., & Co.
Tyrer, T., & Co.
Washington Chemical Co.
White, A., & Sons
Zimmermann, A. & M.

CHECK TILLS
Gledhill, G. H., & Co.
O'Brien, Thos.
Stokes, G. R., & Co., Lim.
Voucher Check Till Co., Lim.

CHEST PROTCTRS
Ayrton & Saunders
Hockin, Wilson & Co.
Liverpool Patent Lint Co.
Maw, S., Son & Thompson
Newbery, F., & Sons
Pattison, G.
Schutze & Co. | Solport Bros.
Solport Bros.
Wood, Vincent

CHLOR. OF LIME
Government Sanitary Co.
Hebden, W. C.
National Chemical Co.

CHLORODYNE
Blyton, Astley & Co.
Davenport (Browne's)
Towle, A. P., & Son

CHLOROFORM
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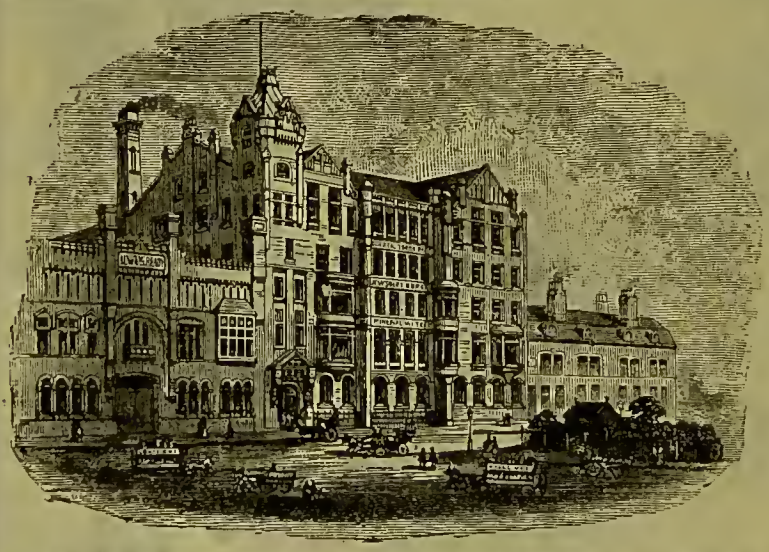

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Advertising Balloon Co.	45
Anglo-American Drug Co. (Lim.)	43
Apollinaris Co.	Cover
Armour & Co.	29
Australian Drug Co. (Lim.)	41
Automatic Sight Testing Co.	4
Ayrton & Saunders	49
Barclay & Sons (Lim.)	15, 27
Barnett & Foster	23
Barrett, R. H	46
Belden, E. & W.	58
Berdoe & Co.	Coloured Supplement
Bleasdale & Co.	42
Blondean & Co.	5
Blyton, Astley & Co.	30
Boehm, F.	8
Boehringer & Söhne	42
Boissy	Text 710
Boord & Son	9
Boulton, J., & Co.	19
Bovril (Lim.)	20
Bowling & Govier	51
Bow's, Dr., Liniment	45
Bratby & Hinchliffe	22
Brett, F. J.	Coloured Supplement
British Paper Co.	13
Browne, T. B.	Text 710
Browning & Co.	16
Burrough, James	9
Burroughs, Wellcome & Co.	32, 33, 34
Bygrave, J. & W.	54
Cadbury Bros.	Cover
Cerebos Salt	20
Champion & Co.	21
Christy, T., & Co.	56
Clarke's Fairy Light Co.	57
Corsan, J. R.	52
Cox, A. H., & Co.	36
Critchley, T.	9
Crocker, G. B.	Coloured Supplement
Currie & Co.	50
Davis, J.	15
Davis, J., & Co. (Lim.)	15
Day, Son & Hewitt	12
De St. Dalmas, A. E.	52
Dee Oil Co.	10
Di Luggo, D., & Co.	21
Durrant & Co.	53
Edwards & Son	44
Eschmann Bros. & Walsh	52
Evans & Sons (Lim.)	Cover 17, 53, 60
Evans, Lescher & Webb	Cover 17, 53, 60
Evans, Sons & Co.	Cover 17, 53, 60
Exchange Column	16
Felton, Grimwade & Co.	42
Fink, F., & Co.	56
Fitch & Nottingham	8
Fletcher, Fletcher & Co.	56, Text 710
Gardner, W.	58
Gibson, R., & Son	18
Glendenning, W., & Sons	20
Goodall, Backhouse & Co.	19
Government Sanitary Co.	13
Great Tower St. Tea Co.	21
Haggerty, C. E.	44
Hargreaves, Dr.	14
Harker, Stagg & Morgan	38
Heine, Joseph, & Co.	19
Hertz & Collingwood	22
Hirst, Brooke & Hirst (Lim.)	20
Hockin, Wilson & Co.	51
Holloway, Professor	15
Homocea	36
Hooper & Co.	Cover
Hora & Co.	Text 710
Hovenden & Son	8
Howlett, S.	54
Hubbuck, T., & Son	38
Incandescent Gas Light Co.	46
Isaacs, I., & Co.	46
Izal	42
Jewsonry & Brown	8, 24
Jope's Combination	56
Josephs, Philip	16
Kay Bros.	39
Kempthorne, Prosser & Co.	41
Krohne & Sesemann	15
Kilner Bros.	47
Kuhn, B.	38
Lator, Dr.	44
Lander, Anderson & Co.	56
Lanoline	33
Leconte, E.	43
Lennon, B. G., & Co. (Lim.)	40
Levermore, A., & Co.	56
Lloyd, A. S.	9
Lofthouse & Saltmer	39
Loisette, A.	14
London Homœopathic Hospital	15
Mackenzie Cure	44
Manchester College	14
Maw, S., Son, & Thompson	3
May & Baker (Lim.)	Cover
May, Roberts & Co.	Cover
Metropolitan College	14
Millar, A., & Co.	20
Moss, R J.	Text 710
Muhlens, F.	6
National Chemical Co.	13
Ness & Co.	56
Newball & Mason	22
Newbery, F., & Son	55
Nicholls, G. W.	56
Northern School	14
North of England School	14
Nortons (Lim.)	36
Odams' Chemical Co.	13
Oppenheimer, Sons & Co. (Lim.)	31
Pears, A. & F. (Lim.)	35
Pfister, F.	10
Phillips, G., & Co.	9
Pinchin, Johnson	58
Potter & Clarke	11
Prosser, Taylor & Co.	40
Ransom, W., & Son	7
Raphael, J., & Co.	16
Richardson, J., & Co., Leicester (Lim.)	37
Ridge's, Dr., Food	19
Robbins & Co.	42
Robinson & Sons (Lim.)	48
Ross & Sons (Lim.)	36
Sanger & Sons	45
Sanitas, The, Co. (Lim.)	Text 710
School of Pharmacy, The	14
Seabury & Johnson	59
Shirley Bros.	55
Silverlook, H.	15
Singleton & Cole	10
Sizer Bros.	8
Smith, T. & H., & Co.	39
Solport Bros.	50
Soul, W. H., & Co.	40
Sozio & Andrioli	7
Spratt's Patent (Lim.)	12
Squire, P. W.	14
Stern, G. & G.	55
Stevenson, H. E., & Co.	56
Stipendum Stopper Co.	46
Sutton, W., & Co.	55
Taylor, F. H., & Co.	46
Thiellay, E. H.	56
Thornton-Pickard Co.	56
Todd, A. M.	6, Text 710
Tomlinson, T.	Coloured Supplement
Toogood, W.	48
Trade Mark Society	Text 710
Treble, G., & Son	54
Tweed Fountain Co.	10
Tyrer, P.	21
Vaccine Association	52
Victoria Rubber Co.	55
Vint, T. D.	56
Wand, S.	36
Warrick Bros.	7
Washington Chemical Co. (Lim.)	39
Wilcox, W. H., & Co.	58
Wilkinson & Co.	45
Wood, V.	52
Wright, Layman & Umney	34
Wyeth, J., & Bro.	28
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Harris, J.
Sears, F. W.

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Chemists' Aerated Waters Association, Lim.
Ellis & Son (Ruthin)
Idris & Co., Lim.
Ingram & Royle
Jewsbury & Brown
Mills & Co. (Bourne)
Oberbrunnen
Pickardt & Co.

DITTO PLANT
[See SYPHONS and ESSENCES.]
Barnett & Foster
Bratby and Hinchliffe, Lim.
Rylands, Dan, Lim.
Tyler, Hayward, & Co.

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Australian Drug Co.
Boissy
Kempthorne, Prosser & Co.
Lennon, B. G., & Co. [(N.Z.)
Peake, Allen & Co.
Prosser, Taylor & Co.
Soul, W. H., & Co.

ALKALOIDS
Howards & Sons (Cinchona)
Macfarlan, J. F., & Co.
Smith, T. & H., & Co.

ALMANACKS
Davis, J.

APPARATUS
Bennett, Sons & Shears
Berend, O., & Co.
Christy, T., & Co.
De Grave, Short, Farmer & Co.

AMMONIA
May & Baker, Lim.
White, A., & Sons
Woolley, Sons & Co.

BAKING POWDER
Goodall, Backhouse & Co.

BANDAGES
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Schutze, F., & Co.
Wood, Vincent

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Tidman & Son, Lim.

BICARB. SODA
Brunner, Mond & Co., Lim.
Howards & Sons
May & Baker, Lim.

BISMUTH PREP.
Hearon, Squire & Francis
Hewlett & Sons
Howards & Sons
May & Baker, Lim.
Symes & Co. | Tyrer, T., & Co.
White, Alfred, & Sons

BOTTLES
Ayrton & Saunders
Barnett & Foster
Barrett, R. H.
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Evans, Sons & Co.
Gilbertson, H., & Sons
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Kilner Bros.
Lofoden Cod Liver Oil Co.
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Rylands, Dan, Lim.
Stipendum Stopper Co., Lim.
Taylor, F. H., & Co.
Toogood, W. | Youldon, E.

BOOKS
Hargreaves, Dr., M.D.
Southall's "Materia Medica"
Squire's "Companion"
Squire, P.

BORAX
Howards & Sons
Mack's Starch

BOXES
Austin & Co. (Cardboard)
Ayrton & Saunders
Evans, Sons & Co.
Ford, Shapland & Co.
Kent, G. B., & Son
Kilner Bros. | Maxime & Co.
Robinson & Sons
Rylands, Dan, Lim.

BRUSHES
Evans, Sons & Co.
Hovenden & Sons
Kent, G. B., & Sons

BUNSEN BURNRS
Berend & Co.

BUTTER COLR, &c.
Boulton, J., & Co., Lim.
Crawshaw & Co.
Hatrick & Co., Lim.
Tomlinson & Hayward

CACHOUS
Bleasdale & Co.
Blyton, Astley & Co.
Raimes & Co. | Warrick Bros.

CAMPHOR
Howards & Sons
May & Baker, Lim.

CAPSULES
Denouai, J (Medicinal)
Duncan, Flockhart & Co.
Evans, Sons & Co.
Hatrick & Co., Lim.
Hoopor, B., & Co.
Lloyd, T. Howard, & Co.
Lofthouse & Saltmer
Maw, S., Son & Thompson
Parke, Davis & Co.
Richardson, John, & Co. (Leicester), Lim
Warrick Bros
Wylcys, L.m.

CALENDARS
Ford, Shapland & Co.
Hildesheimer, S., & Co., Lim.
Speller & Co. | Townsend, J.

CARBOLIC ACID
Mason, C. E., & Co.
Wandsworth Chemical Works, Lim.

CSCRA SAGRADA
Anderson & Co.
Duncan, Flockhart & Co.
Evans, Sons & Co.
Ferris & Co.
Harker, Stagg & Morgan
Moss, J., & Co.
Parke, Davis & Co.
Squire & Sons
Stearns, F., & Co.

CERESINE WAX
Boehm, Fredk.
Pfister, F.

CHALK, PRECIP.
Levermore, Ang., & Co.
Morrison, R., & Co.
Nicholls, G. W.

CHEMICALS
Berger, Kahler & Co.
Boehm, Fredk.
Boehringer, C. F., & Sohne
Boulton, J., & Co., Lim.
Brunner, Mond & Co., Lim.
Burton, W., & Sons
Fletcher, Fletcher & Stevenson
Goodall, Backhouse & Co.
Hill, A. S., & Son [Clarke
Hodgkinsons, Treacher &
Howards & Sons (Pharm.)
Lofthouse & Saltmer
Lorenz, H.
Macfarlan, J. F., & Co.
May & Baker, Lim.
Morris & Callard | Moss & Co
Smith, T. & H., & Co.
Tyrer, T., & Co.
Washington Chemical Co.
White, A., & Sons
Zimmermann, A. & M.

CHECK TILLS
Gledhill, G. H., & Co.
O'Brien, Thos.
Stokes, G R., & Co., Lim.
Voucher Check Till Co., Lim.

CHEST PROTCTRS
Ayrton & Saunders
Hockin, Wilson & Co.
Liverpool Patent Lint Co.
Maw, S., Son & Thompson
Newbery, F., & Sons
Pattison, G.
Schutze & Co. | Solport Bros,
Solport Bros.
Wood, Vincent

CHLOR. OF LIME
Government Sanitary Co.
Hebden, W. C.
National Chemical Co.

CHLORODYNE
Blyton, Astley & Co.
Davenport (Browne's)
Towle, A. P., & Son

CHLOROFORM
Duncan, Flockhart & Co.
Macfarlan, J. F., & Co.
Smith, T. & H., & Co.
Wright, Layman & Umney
Zimmermann, A. & M.

COCA & CHOCOLTE
Cadbury Bros. | Christy & Co

COCAINE-HYDRO.
Howards & Sons

COD-LIVER OIL
Allen & Hanburys
Burroughs, Wellcome
Evans, Sons & Co.
Hill, A. S., & Son
Hockin, Wilson & Co.
Lofoden Cod Liver Oil Co.
Lorimer & Co.
Moss, J., & Co.
Oppenheimer, Sons & Co.
Richardson, J., & Co., Lim.
Smith, T. & H., & Co.
Spratt's Patent (Dog Cakes)
Stearns, F., & Co.
Woolley, Sons & Co.
Wright, Layman & Umney

COCA WINE
Armbrecht, Nelson & Co.
French Hygienic Soc.
Lorimer & Co.
Stephen Smith & Co. (Hall's)

COLAPSBL TUBES
Betts & Co.

COMBS
Hovenden & Sons

COMP. MEDICINS
Allen & Hanburys
Blyton, Astley & Co.
Burroughs, Wellcome & Co.
Hooper, B.; & Co. | Leo & Co.
Lloyd, T. Howard, & Co,
Parke, Davis & Co.
Richardson, J., & Co., Lim.
Stearns, F., & Co.

CONCENT. LIQRS.
Baiss Bros., & Co.
Cooper & Co.
Fletcher, Fletcher & Stevenson
Lloyd, T. Howard, & Co.
Richardson, J., & Co., Lim.

CONFECTIONERY
Randall & Son

CORN. CURES
Gardner, C.

COTTON WOOL
Haynes, G., & Co. (Absorbent)
Robinson & Sons (Absorbent)
Sanger, J., & Sons

CRSHD LINSEED
Mumford, G. S. | Sizer Bros.

DENTIFRICES, &c.
Beecham, T.
Bronnley, H., & Co.
Hanson, O. | Hovenden & Sons
Jewsbury & Brown
Lakeman, J. J. | Stevens, P. A.
Sutton, O., & Co.
Warrick Bros. | Wilson, A.
Woods, W. (Areca-Nut)

DISINFECTANTS
Barclay & Sons, Lim.
Beedzler & Co. | Brooks, T.
Drysdale, J. W., & Co.
Dussek Bros. & Co.
Fletcher Bros. & Co.
Government Sanitary Co.
Hehden, W. C.
Jeyes' Sanitary Compounds Co.
Mason, C. E., & Co.
May & Baker, Lim.
National Chemical Co.
Ness & Co.
Odams' Chemical Co., Lim.
Sanitas Co., Lim.
Seabury & Johnson
Tyrer, T., & Co. Lim.
Wandsworth Chemical Works,

DOG MEDICINES
Spratt's Patent, Lim.

DRUGGISTS' SUN.
Ayrton & Saunders
Barclay & Sons, Lim.
Belden, E. & W.
Bleasdale & Co., Lim.
Chemists' Association, Lim.
Evans, Lescher & Webb
Evans, Sons & Co. (Savars)
Feaver, J.
Fordham, W. B., & Sons, Lim.
Hockin, Wilson, & Co.
Hovenden & Sons
Kay Bros., Lim.
Maw, S., Son & Thompson
May, Roberts & Co.
Newbery, F., & Sons
Palmer & Co., Lim.
Quelch, H. C.
Sanger & Sons | Schutze & Co.
Tidman & Son | Toogood, W.
Tunbridge & Wright
The Tweed Fountain Co.
Wood, Vincent

DRUGS
Allen, S., & Sons (Grinders)
Bleasdale & Co., Lim. | Graf, F.
Hopf, R. | Morrison, R., & Co.
Phillips & Co. [(Grinders)
Richardson, J., & Co., Lim.

DRYSALTERIES
Browning, J. H., & Co.

DYES, &c.
Crawshaw & Co.
Hatrick & Co., Lim.

EAU DE COLOGNE
Farina, J. M. | Muhlens, F.
Hockin, Wilson & Co.

ECZEMA
Cullwick's Skin Ointment
Cullwick's Blood Tablets

EMBROCATION
Day & Sons
Ellman, Sons & Co.

ENEMAS
Barclays, Lim.
Evans, Sons & Co.
Putney, J., & Sons
Sanger & Son | Wood, Vincent

ESSENCES
Boulton, J. & Co., Lim.
Bovril, Lim. (Beef)
Brathy & Hinchliffe, Lim.
Burgoyne, Burbidges & Co.
Bush, W. J., & Co.
Fletcher, Fletcher & Stevenson
Goodall, Backhouse & Co.
Hodgkinsons, Prestons & King
Idris & Co., Lim.
Lorimer & Co.
May & Baker, Lim.
Newball & Mason
Rylands, Dan, Lim.
Stevenson & Howell
Tyrer, P. (Anchovies)
Tyrer, T., & Co.
Woolley, Sons & Co.

ENGRAVERS
Caspar & Co., Lim.
Corsan, J. R.

ESSENTIAL OILS
Allen, S., & Sons
Bochm, Fredk.
Bush, W. J., & Co.
Dodge & Olcott
Drysdale, J. W., & Co.
Evans, Sons & Co. [Clarke
Hodgkinsons, Troacher &
May & Baker, Lim.
Poppelreutor, W.
Ransom, Wm., & Sons
Rylands, Dan, Lim.
Sozio & Andrioli
Spurway & Co.
Stevenson & Howell
Symes & Co. | Todd, A. M.
Treatt, R. C. | Warrick Bros.
Widenmann, Broicher & Co.
Wright, Layman & Umney

ETHER
Duncan, Flockhart & Co.
Howards & Sons
Macfarlan, J. F., & Co.
May & Baker, Lim.
Robbins, J., & Co.
Tyrer, T., & Co.
White, A., & Sons
Woolley, Sons & Co.
Wright, Layman & Umney

ETHYL CHLORIDE
Kühn, B.

EUCALYPTUS
Laughland, Mackay & Baker
Massey & Co.
Tasmanian Eucalyptus Oil Co.

EXALGINE
Kühn, B.

EXTRACT MEAT
Armour & Co. | Brand & Co.
Idris & Co. (Viking Co.)
Liebig Co.
Liquor Carnis Co., Lim.
Mason, G., & Co., Lim.
Wyeth, J., & Brother

EXTRCTS, FLUID
Allen & Hanburys
Allen, G., & Co.
Bleasdale & Co., Lim.
Burgoyne, Burbidges & Co.
Evans, Sons & Co.
Fletcher, Fletcher & Stevenson
Hearon, Squire & Francis
Hooper, B., & Co.
Lloyd, T. Howard, & Co.
Moss & Co.
Parke, Davis & Co.
Potter & Clarke
Ransom, W., & Son
Richardson, J., & Co., Lim.
Stearns, F., & Co.
Wright, Layman & Umney

EXTRACTS, SOLID
Allen, G., & Co.
Ransom, W., & Son
Stearns, F., & Co.

FEEDG BOTTLES
Burroughs, Wellcome & Co. (Thermo Safe)
Chemists' Association, Lim
Evans, Sons & Co.
Gilbertson, H., & Sons
Hearn, Wright & Co.
Hockin, Wilson & Co.
Hovenden & Sons
Kilner Bros.
Marriott, E. & Co.
Maw, S., Son & Thompson
May, Roberts & Co.
Shirley Bros.
Youldon, E.

FILTERS
Fordham, W. B., & Sons, Lim.

FLY PAPERS
Buchan, D.
Ford, Shapland & Co.
Marshall, E.
Mather, W., Lim.
May, Roberts & Co.
Silverlock, H. | Strong, Christy
Tidman & Sons
Tunbridge & Wright

FOOD (Infants' & Invalids')
Allen & Hanburys
Benger's Food
Brand & Co.
Cerebos Salt Co., Lim.
Chibnall, H. B.
Evans, Sons & Co
Glendenning, W., & Sons
Goodall, Backhouse & Co.
Hearon, Squire & Francis
Liebig Co. | Lorimer & Co.
Mason, F.
Mason, G., & Co., Lim.
Mellins Food | Nestlé, H.
Ridge, Dr. | Tyrer, P.
Viking Food Co.
Wyeth, J., & Bro.

FORMULÆ
Brooks, T.

FULLERS' EARTH
Fullers' Mining Co., Lim.

GAS BURNERS
Incandescent Gas Light Co., Ld.

GELATINES
Astley, Cooper & Co.
Boehm, F.
Heins, J., & Co.

GINGER ALE
Brathy & Hinchliffe, Lim.
Chemists' Aerated & Mineral Water Association, Lim.
Ellis & Son
Mills, R. M., & Co.
Ross & Sons, Lim.

GLYCERINE
Blyton, Astley & Co. (Pastilles)
Boehm, F. | Fink & Co.
Price's Candle Co., Lim.

GRANULAR PREP.
Bishop, A., & Sons
Blyton, Astley & Co.
Evans, Sons & Co.
Hearon, Squire & Francis
Lloyd, T. Howard, & Co.
Richardson, J., & Co., Lim.
Tyrer, T., & Co.
Wright, Layman & Umney

GUM
Fink & Co. (Arabic, &c.)

HAIR PREP.
Chesebrough Co.
Edwards & Co.
Truefitt, H. P., Lim.

HERB BEER EXTS.
Newball & Mason
Potter & Clarke
Southall Bros. & Barclay

HOMŒOPATHIC
Epps, James & Co., Lim.
Keene & Ashwell
Leath & Ross
Watson & Wates

HOT WATR BTTLS
Currie & Co.

HYPOPHOSPH'TES
Duncan, Flockhart & Co.
Fellows
Fletcher, Fletcher & Co.
Lorimer & Co. | Symes & Co.
Tyrer, T., & Co.

INHALERS
Burroughs, Wellcome & Co.
Gilbertson, H., & Sons
Hockin, Wilson & Co.
Putney, J., & Sons
Toogood, W.

INK
Bewley & Draper, Lim.

INSECTICIDES
Barclay & Sons, Lim.
Hehheler, K.
Hockin, Wilson & Co.
Lorimer & Co.
Sandford & Sons
Steiner & Co.
Stevenson & Howell

IRON, REDUCED
Berger, Kahler & Co.

JELLOIDS
Warrick Bros.

KETCHUP
Tyrer, P.

KOLA
Christy & Co.
Moss, John, & Co.

LAMPS
Caspar & Co.

LARD
Ewen, J., & Sons

LIME JUICE
Evans, Sons & Co.
Lorimer & Co.

LINT
Burgoyne, Burbidges & Co.
Christy, T., & Co.
Liverpool Lint Co.
Maw, S., Son & Thompson
Newsome, C.
Robinson & Sons

LIQUORICE
Dennis Di Luggo & Co.

LIQUORS
Cooper & Co.
Fletcher, Fletcher & Co.
Hodgkinson, Prestons & King
Lloyd, T. Howard, & Co.
Moss, John, & Co.
Oppenheimer, Son & Co., Lim.
Stearns, F., & Co.

LOZENGES
Allen & Hanburys
Blyton, Astley & Co.
Gibson, R. & Sons (Manfrs.)
Guest, T., & Co.
Hill & Son | Lorimer & Co.
Raimes & Co.
Richardson, J., & Co., Lim.
Stearns, F., & Co.
Warrick Bros.

MACHINERY
Bennett, Sons & Shears Lim.
Carter, T. H.
Gardner, W.
Hockin, Wilson & Co.
Pindar, J. W.
Werner & Pfleiderer (Kneading and Sifting)

MALTEXTRCT, &c.
Allen & Hanburys
Anderson & Co.
Burroughs, Wellcome & Co. (Kopler's)
Glendenning, W., & Sons (Wine)
Hearon, Squire & Francis
Loconte, Eugene
Lofoden Cod Liver Oil Co.
Lorimer & Co.
Moss, J., & Co.
Oppenheimer, Sons & Co., Lim.
Parke, Davis & Co.
Raimes & Co.
Raimes, Clark & Co.
Richardson, John, & Co. Leicester), Lim.
Robinson & Co.

MAGNESIA
Bleasdale, W., & Co.
Evans, Sons & Co.
Henry, T. & W. (Calcined)
Hill, A. S., & Sons
Lloyd, T. Howard, & Co.
Lorimer & Co.
Washington Chemical Co.

MANICURE
Hovenden & Sons

MARKING INKS
Bond (Daughter of the late John) (Ink & Pencils)

MEDICINE CHSTS
Burroughs, Wellcome & Co.
Day, Son & Hewitt (Veterinary)
Day & Sons (Veterinary)
Richardson, J., & Co., Lim.

MENTHOL
Burroughs, Wellcome & Co.
Christy, T., & Co.
Evans, Sons & Co.
Hockin, Wilson & Co.
Maw, S., Son & Thompson
Shirley Bros. | Tyrer, P.

MERCURIALS
Howards & Sons
May & Baker, Lim.
Tyrer, T., & Co.

METH. SPIRTS, &c.
Boord & Son | Burrough, J.
Jones & Co.
Phillips, G., & Co.
Smith, S., & Co.

METHYLENE
Robbins, J., & Co.

MICROSCOPES
Darton, F., & Co.

MILK
Nestlé, H. (Condensed)

MORPHIA
Macfarlan, J. F., & Co.
Smith, Bertie, & Co.
Smith, T. & H., & Co.

NIGHT LIGHTS
Palmer & Co., Lim.

OILS
Bowley, S., & Son
Hooper, B., & Co. (Sandal Wood)

OILS, PAINTS, VARNISHES, &c.
Browning, J. H., & Co.
Fox, W., & Sons
Matthews, H., & Co.
Pinchin, Johnson & Co.

OINTMNT BASES
Burroughs, Wellcome & Co. (Lanoline)
Chesebrough Co. (Vaseline)
Christy, T., & Co.
Lloyd, T. Howard, & Co.
Richardson, J., & Co. (Leicester), Lim.

OPIUM
Hopf, R.

OPTICIANS
Botwright & Grey
Darton, F., & Co.
Raphael, J. & Co.
Sight Testing Co., Lim.

OTTO OF ROSE
Warrick Bros.

OXIDE OF ZINC
Hubbuck, T., & Son, Lim.

PAPAIN
Kühn, B.

PAT. MEDCNS, &c.
Anglo-American Drug Co. Lim. [Preserv.)
Atkinson & Barker (Infant
Barclay & Sons, Lim.
Beecham, T. (Pills)
Bow's, Dr., Liniment
Bromley, C. (Gout and Rheu.)
Chemists' Association, Lim.
Clarke's Blood Mixture
Cullwick's Skin Ointment
Cullwick's Blood Tablets
Edwards & Son
Evans, Lescher & Webb
Fassett & Johnson
Fenning (Powders)
Frog in the Throat
Goodall, Backhouse & Co.
Holloway (Pills and Oint.)
Hovenden & Sons
Lalor (Phosphodyne, &c.)
Mackenzie, Dr. (Catarrh Cure)
May, Roberts & Co.
Newbery, F., & Sons
Powell, T.
Roberts & Co (Foreign)
Sutton, W., & Co.
Warner, H. H., & Co., Lim.
Wilkinson & Co.
Wilson, A. (Baster's Nervine)

PEPPERMINT OIL
Bush, W. J., & Co.
Ransom, W., & Son
Stevenson & Howell

PEPSIN, &c.
Armour & Co.
Burroughs, Wellcome & Co.
Fletcher, Fletcher & Stevenson
Newbery, F., & Sons (Ingluvin)
Parke, Davis & Co.
Stearns, F., & Co.
Warner & Co. (Ingluvin)

PEROX OF HYDR.
May & Baker, Lim.
Robbins & Co.
Tyrer, T., & Co.

PETROLEUM
Allen & Hanburys
Christy, T., & Co.
Deo Oil Co., Lim.
Snowdon, Sons, & Co.

PERFUMERY, FANCY SOAPS
Barclay & Sons, Lim.
Bleasdale & Co.
Blondeau & Cie. | Boehm, F.
Blyton, Astley & Co.
Brooks, T. (solid)
Burgoyne, Burbidges & Co.
Burroughs, Wellcome & Co.
Bush, W. & J., & Co.
Chemists' Association, Lim.
Chesebrough Co.
Evans, Sons & Co.
Ewen, J., & Sons
Farina, J. M.
Hovenden & Sons
Lanoline | Mulhens, F.
Newbery, F., & Sons (Berdoes
Pears, A. & F., Lim.
Price's Patent Candle Co.
Sozio & Andrioli
Tidman & Son | Treatt, E. C.
Truefitt, H. P., Lim.
Warrick Bros.
West, T. (Okell's Mona)
Woolley, Sons & Co. (Powder)
Wright, Layman & Umney

PHARM. PREPS.
Allen & Hanburys
Armour & Co.
Baiss Bros.
Barron, Harveys & Co.
Boehm, Fredk.
Boehringer, C. F., & Sohne
Boulton, J., & Co., Lim.
Burgoyne, Burbidges & Co.
Burroughs, Wellcome & Co.
Duncan, Flockhart & Co.
Ferris & Co.
Fletcher, Fletcher & Co.
Giles Schacht & Co.
Hearon, Squire & Francis
Hewlett & Son
Hill, A. S., & Sons
Howards & Sons
Macfarlan, J. F., & Co.
May & Baker, Lim.
Moss, J., & Co.
Oppenheimer, Son & Co., Lim
Parke, Davis & Co.
Potter & Clarke
Richardson, John, & Co. (Leicester), Lim.
Roberts & Co.
Smith, T. & H., & Co.
Squire & Sons
Sutton, W., & Co.
Symes & Co. | Tyrer, T. & Co.
Warner, H. H., & Co., Lim.
White, Alfred, & Sons
Woolley, Sons & Co.
Wyeth, Jno., & Bro.
Zimmermann, A. & M.

PHOTOGRAPHIC
Barclay & Sons, Lim.
Blackfriars Photographic Co.
Boehm, Fredk.
Botwright & Grey
Burroughs, Wellcome & Co.
Darton, F., & Co.
Fordham, W. B., & Sons, Lim.
Howards & Sons (Chemicals)
Thornton-Pickard Co.
Tyrer, T., & Co.
White, Alfred, & Sons
Zimmermann & Co.

PILL MACHINES
Pindar, J. W.
Toogood, W. (Coater)
Werner & Pfleiderer

PILLS, Coated, &c.
Allen & Hanburys
Anderston Apothecaries' Hall
Beecham, Thomas
Blyton, Astley & Co.
Carter's Little Liver Pills
Cox, Arthur H., & Co. (tastless)
Dr. Williams Medicine Co.
Duncan, Flockhart & Co.
Evans, Sons & Co.
Hearon, Squire & Francis
Hill, A. S., & Son
Holloway's
Jolly's "Duchess" Pills
Lloyd, T. Howard, & Co.
Lorimer & Co.
McKesson & Robbins
Newbery, F., & Sons
Nortons, Lim. (Camomile)
Parke, Davis & Co.
Potter & Sacker
Richardson, J., & Co., Lim.
Stearns, F., & Co.
Walker, D. P.
Wand, S. (Pearl Coated)
Warner, W. R., & Co. (Coated)
Wyeth, J., & Bro.
Wyleys, Lim.

PLASTERS
De St. Dalmas, A.
Evans, Sons & Co.
Johnson & Johnson, Lim.
Leslies, Lim | Mather, W., Lim
Seabury & Johnson

POLISHING
Bradley & Bourdas (Albatum)
Chancellor & Co.
Fordham, W. B., & Sons, Lim.

POPPY HEADS
Bleasdale & Co., Lim.

PORCELAIN GDS
Toogood (E.c. Pots, regist.)

POULTRY FOOD
Spratt's Patent, Lim.

PRINTING
Bowers Bros.
Corsan, J. R. (Glass)
Ford, Shapland & Co.
Silverlock, H.
Taylor Bros. | Townsend, J.

QUININE SALTS
Boehringer, C. F., & Sohne
Hockin, Wilson & Co. (Wine)
Howards & Sons
Smith, S., & Co. (Wine)
Zimmermann, A. & M.

RENNET
Duncan, Flockhart & Co.
Tomlinson & Hayward

SALICIN
Macfarlan & Co.
Smith, T. & H., & Co.

SALICYLATES
Knoll & Co.

SALICYLIC ACID
Burgoyne, Burbidges & Co.
Kühn, B.
Zimmermann, A. & M.

SALOL
Kühn, B.

SARSAPARILLA
Wilkinson's

SACHETS
Warrick Bros.

SAUCES, PICKLES
Goodall, Backhouse & Co.
Tyrer, P.

SCIENTIFIC INSTRUMENTS
Darton & Co.

SEEDS
Potter & Clarke

SEIDLITZ PWDRS
Blyton, Astley & Co.
Hockin, Wilson & Co.
Hora & Co.
May, Roberts & Co.

SELTZOGENES
Brathy & Hinchliffe, Lim.
Evans, Sons & Co.
Gerant, E., & Co.
Hockin, Wilson & Co.
May, Roberts & Co.

SHAVING
Hovenden & Sons (Euxesis)
Lloyd, Mrs. A. S. (Euxesis)
Truefitt, H. P., Lim.

SHEEP DIP
Fletcher, Bros. & Co.
Jeyes'SanitaryCompoundsCo.
Ness & Co.
Odams' Chemical Co., Lim.
Tomlinson & Hayward, Lim.

SCHOOLS, &c.
Central School of Chemistry
City School of Chemistry and Pharmacy, Lim.
Loisette, A (MemoryTraining)
London Homœopathic and Medical School
Manchester Col. of Pharmacy
Metropolitan Col. of Pharmacy
Newcastle School
Newington Col. of Chemistry
Northern School of Pharmacy
North of England School
Sheffield College of Pharmacy
South London School of Pharmacy, Lim.
The School of Pharmacy
Westminster College

SHOP FITTERS
Bowling & Govier
Bygrave, J. & W.
Evans, Sons & Co. Howlett, S.
Josephs, P. | Natall & Co.
Treble, G., & Son

SOAP
Ayrton & Saunders
Barclay & Sons, Lim.
Bloudeau et Cie (Vinolia)
Bronnley, H., & Co.
Cook, E., & Co.
Evans, Sons & Co.
Fordham, W. B., & Sons, Lim.
Jeyes'SanitaryCompoundsCo.
Lorimer & Co.
Muhlens, F.
Pears, A. & F., Lim.
Tidman & Son
United Alkali Co., Lim.
Wright, Layman & Umney

SODIUM PRXIDE.
Burton, W., & Sons

SPECTACLES
Botwright & Grey
Dartou, F., & Co.
Optical Sight-Testing Co., Ld.
Raphael, J., & Co.

SPONGES
Cresswell Bros. & Schmitz
Evans, Sons & Co.
Peterson, M., & Co.

STAMPS(RUBBER)
Hicklsson, J.

STARCH
Chancellor & Co. (Mack's)
Critchley (Gloss) Double

STOPPERS
Austin & Co (Sprinklers)
Barnett & Foster
Birmingham Stopper Co.
Melin, C.
Orchard, E. (Poisonl
Stipendum Stopper Co., Lim.

STOVES
Clark, S., & Co., Lim.

SUGAR OF MILK
Boehm, Fredk.

SURGICAL
Ayrton & Saunders
Bailey, W. H., & Son
Barclay & Sons, Lim.
Burgoyne, Burbidges & Co.
Cocking, J. T.
Eschmann Bros. & Walsh
Harris, J.
Hatrick & Co., Lim.
Haywood, J. H.
Krohne & Sesemann
Liverpool Patent Lint Co.
Macfarlan, J. F., & Co.
Mather W., Lim.
Maw, S., Son & Thompson
Powell & Barstow
Queich, H. C.
Richardson John, & Co., Lim.
Robinson & Sons
Schutze, F., & Co.
Statham, H., & Co.
Victoria Rubber Co.
Wood, Vincent

SYPHONS
Barcett & Foster
Brathy & Hinchliffe, Lim.
Chemists' Aërated & Mineral Waters Association, Lim.
Fordham, W. B., & Sons, Lim.
Idris & Co., Lim.
Kilner Bros. | Melin, C.
Rylands, Dan, Lim.

SYRUPS
Blyton, Astley & Co.
Cooper & Co.
Fletcher, Fletcher&Stevenson
Idris & Co., Lim. (Liquors)
Stevenson & Howell

TABLETS
Blyton, Astley & Co. (Sulphur)
Corsan, J. R. (Advertising)
Richardson, J., & Co., Lim. Compressed)

TEA
Burroughs, Wellcome & Co. (Tabloids)
Gt. Tower Street Tea Co.
Horniman, W.H. & F.J. & Co.
Pearse & Meeking [Lim.

TEETHING PADS
Marriott, E., & Co.

THERMOMETERS
Bailey, W. H., & Son
Barclay & Sons, Lim.
Darton, F., & Co.

TINCTURES
Evans, Sons & Co.
Hewlett, C. J., & Son
Hodgkinson, Prestons & King
Lloyd, T. Howard, & Co.
Moss, John & Co.
Parke, Davis & Co.
Wyleys, Lim.

TOBACCO & CIGRS
Singleton & Cole (Lim.)

TOILET
Asphall, E.
Allen & Hanburys (Chrisma)
Bates, F. W.
British Paper Co.
Burroughs, Wellcome & Co. (Lanoline)
Dee Oil Co., Lim.
Hockin, Wilson & Co.
Hovenden & Sons
Maw, S., Son & Thompson
Queich, H. C.
Truefitt, H. P., Lim.

TOOTH PASTE
Beecham, T.
Jewsbury & Brown
Maw, S., Son & Thompson
Sutton, O., & Co.
Truefitt, H. P., Lim.
Wilson, A. (Bunter's)
Woods, M. (Areca)

TRADE MARKS
Browne, T. B.
Trade Mark Society, Lim.

URETHRANE
Howards & Sons
Vaccine Association (Lymph)

VACCINATION
Vaccine Association (Lymph)

VALUERS & TRNSFR AGNTS.
Berdoe & Co | Brett, F. J.
Crocker, G. B., & Co.
Orridge & Co.
Tomlinson, Thos. & Son

VASELINE
Chesebrough Co.

VERMIN KILLER
Hebheler, K.

VETERINARY
Bird & Storey | Day & Sons
Day, Son & Hewitt
Ellman, Sons & Co.
James, W. H. (Blisters)
Jeyes'SanitaryCompoundsCo.
Lloyd, T. Howard, & Co.
Rookledge, F. E.
Spratt's (Dogs)
Walker, Troke & Co.

VINEGAR
Champion & Co., Lim.
Pott, R. & N.

VINOLIA Superf'tt'd
Blondeau & Cie.

WHOLSLE & EXPT DRUGGISTS
Allen & Hanburys
Allen, S., & Son | Bales Bros.
Barron, Harveys & Co.
Bleasdale & Co., Lim.
Boyce Bros.
Burgoyne, Burbidges & Co.
Bush, W. J., & Co.
Evans, Sons & Co.
Evans, Lescher & Webb
Fassett & Johnson
Ferris & Co.
Fox, W., & Sons | Graf, F.
Goodall, Backhouse & Co.
Harker, Stagg & Morgan
Hearon, Squire & Francis
Hewlett & Son
Hill, A. S., & Son
Hodgkinsons, Treacher & Kemp, Wm. & Son [Clarke
Lloyd, T. Howard, & Co.
Lofthouse & Saltmer
Macfarlan, J. F., & Co.
Potter & Clarke
Prosser, Taylor & Co.
Raimes & Co.
Raimes, Clark & Co.
Richardson, J., & Co., Lim.
Symes & Co.
Walker, Troke & Co.
Willows, Francis & Butler
Woolley, Jas., Sons & Co.
Wright, Layman & Umney
Wyleys, Lim.

WINES, SPIRITS
Armbrecht, Nelson&Co. (Coca)
Burroughs, J.
Coleman & Co., Lim.
Durrant & Co.
French Hygienic Socy. (Coca
Glendenning, W., & Sons
Goodall, Backhouse & Co.
Hirst, Brooke & Hirst, Lim.
Lorimer & Co.
Millar, A., & Co. (Orange)
Robinson, B.
Smith, S., & Co. (Orange)

Chemists and Druggists will find that Physicians and Surgeons, when treating diseases in which

TOXAEMIA

is liable to be encountered, as well as diseases in which Pyrexia, or Hyperpyrexia, or Neuralgia is attended by WEAK HEART ACTION, will shortly require

Antitoxine

(Strengthens the Heart's Action),

an Antipyretic, Antitoxic, Antineuralgic, and Antirheumatic which, while powerful in action, is perfectly safe in every case. We will be pleased to send Sample Powders to all who apply for them.

For sale, at 4/9 per box of one ounce, by all leading Wholesale Druggists, and by

The Sole English Agents,

BARCLAY & SONS, Limited,

95 Farringdon Street,

For Dispensing only. LONDON, E.C.

THE DEMANDS OF THE

MEDICAL PROFESSION

are now so constant, and constantly increasing, for certain of the

PHARMACEUTICAL SPECIALTIES

MANUFACTURED BY

JOHN WYETH & BROTHER

MANUFACTURING PHARMACEUTICAL CHEMISTS,

PHILADELPHIA, U.S.A., AND 30 SNOW HILL, LONDON, E.C.,

that we subjoin for the benefit of

RETAIL CHEMISTS

a List of Prices of those most frequently demanded :—

WYETH'S BEEF JUICE.
In bottles containing 2 fluid oz. ... ... per doz. **30/-**

WYETH'S DIALYSED IRON.
Regular size bottles (5 fluid oz.), in boxes, with dropper ... per doz. **26/-**
In 1-lb. bottles, for dispensing ... ... per doz. **42/-**

WYETH'S WINE OF TAR.
(Particularly seasonable at this time.) In 16-oz. bottles ... per doz. **16/-**

WYETH'S ELIXIR DIGESTIVE FERMENTS.
In 16-oz. bottles ... ... per doz. **48/-**

WYETH'S GLYCEROLE CHLORIDE OF IRON.
(Non-alcoholic.) In 16-oz. bottles ... ... per doz. **32/-**

WYETH'S PEPSIN, WYETH'S PANCREATIN,
WYETH'S PEPTONIC PILLS, SPENCER'S CHLORAMINE PASTILLES,
ETC., ETC.,

are quoted in Price Lists forwarded on application, with information of Terms and TRADE DISCOUNT, by

WILLIAM F. HORTON,

Resident Representative of JOHN WYETH & BROTHER,
30 SNOW HILL, LONDON, E.C.

All of the Preparations of JOHN WYETH & BROTHER are supplied by the Wholesale Druggists.

European Office:
59 Tooley Street,
LONDON, S.E.

Armour's

Pharmaceutical Products.

Prepared entirely from perfectly fresh raw material, manipulated by chemical specialists within a stone's throw of the killing-floor.

If in original bottles bearing their shield trade mark, ARMOUR & Co. absolutely guarantee that the contents will equal the claim made on the label.

PEPSIN.

3,000 test six hours.
Guaranteed FIVE times B.P. strength.
(*a*) INSOLUBLE POWDER (non-hygroscopic).
(*b*) GRANULAR (soluble and non-hygroscopic).
(*c*) POWDERED GRANULAR (do. do.).

GLYCEROLE PEPSIN.

GLYCEROLE PANCREATIN.

ESSENCE PEPSIN.

NUTRIENT WINE OF BEEF PEPTONE.

TABLETS OF PURE PEPSIN.

3 Grains each. Coated or Uncoated.
In Flat Bottles for the Pocket.

LACTATED PEPSIN.

A Perfect Combination of the Digestive Ferments.

4th Edition.

ARMOUR'S FORMULARY

is sent post free to Chemists on application.

It contains many suggestions for combining the Digestive Ferments with other medicinal agents.

Special Advertising Matter

and suggestions for cultivating trade with medical men sent on request.

PEPTONISING TABLETS.

PURE PANCREATIN	2½ grains.
SODIUM BICARBONATE ..	8 „

Recipes furnished for Pre-digesting Milk and other Foods.

BEEF PEPTONE. Paste.

BEEF PEPTONE. Powder.

OX GALL. Inspissated.

15 volumes = 100 volumes fresh Ox Gall.

OX GALL. Desiccated.

DESICCATED BLOOD.

PURE POWDERED BEEF.

DRIED THYROIDS.

EXTRACT OF BEEF.

VIGORAL.

BLYTON, ASTLEY & COY.

T. B. BLYTON, Ph. Chemist. F. A. ASTLEY, Ph. Chemist.

Manufacturing Pharmacists,

EAGLE LABORATORIES, MANCHESTER.

New Telephone 1159. Telegrams—"Troches Manchester."

A SELECTION OF

SOLUBLE PEARL-COATED PILLS

IN EVERY-DAY DEMAND.

MADE FROM STANDARD DRUGS, WELL FINISHED AND SOLUBLE.

In 10-gross or 1-lb. lots, cash with order.

OFFICIAL FORMULÆ.

3	Pil. Aloes et Ferri ...	6*d.* gross,	4/- lb.
7	„ Coloc. Co.	10*d.* „	10/- „
9	„ Coloc. et Hyoscy. ...	1/1 „	10/- „
17	„ Rhei Co.	6*d.* „	4/3 „

APERIENT.

45	Pulv. Aloes Barb....	$1\frac{2}{3}$ gr.	
	Pulv. Cambogiæ ...	$\frac{1}{3}$ gr.	
	Pulv. Jalapæ ...	$\frac{2}{3}$ gr.	
	Pulv. Coloc.	$\frac{1}{2}$ gr.	
	Sapo. Cast.	$\frac{1}{3}$ gr.	
	Gingerin...	$\frac{1}{6}$ gr.	9*d.* gross, 4/6 lb.

46 As above, with 1 gr. Hyd. Subchlor. in each Pill, same price.

ANTIBILIOUS.

435	Pulv. Aloes Barb. ...	2 gr.	
	Pulv. Rhei	1 gr.	
	Pulv. Zingiber. ...	$\frac{3}{4}$ gr.	
	Hyd. Subchlor. ...	$\frac{1}{2}$ gr.	4/6 lb.
346	Pil. Hydrarg. ...	$1\frac{1}{2}$ gr.	
	Ext. Coloc. Co. ...	$2\frac{1}{2}$ gr.	
	Ext. Hyoscy.... ...	1 gr.	12/- lb.

BLAUD'S. (*Martindale's Improved.*)

176 ... ... 6*d.* gross, 4/- lb.

CASTOR OIL.

144	Pulv. Rhei ...	$1\frac{1}{2}$ gr.	
	Pot. Sulph. ...	$1\frac{1}{2}$ gr.	
	Pulv. Saponis ...	$\frac{1}{2}$ gr.	
	Ol. Ricini ...	$\frac{1}{2}$ m.	
	Ol. Croton. ...	1-16th m.	4/- lb.

LITTLE CATHARTIC.

320	Podophyllin. ...	$\frac{1}{8}$ gr.	
	Pulv. Aloin. ...	$\frac{1}{4}$ gr.	
	Ext. Hyoscy. ...	1-20th gr.	
	Ext. Nuc. Vom.	1-20th gr.	
	Jalapin.	1-12th gr.	
	Gingerin.... ...	1-20th gr.	
	Pulv. Saponis ...	$\frac{1}{8}$ gr.	7*d.* gross, 18/- lb.

COUGH.

298	Pulv. Ipecac. Co.	$1\frac{1}{2}$ gr.	
	Gum. Ammon...	$1\frac{1}{2}$ gr.	
	Pulv. Scillæ ...	1 gr.	
	Pulv. Saponis ...	$\frac{1}{2}$ gr.	5/- lb.

LITTLE LIVER.

282	Podophyllin. ...	$\frac{1}{4}$ gr.	
	Pulv. Aloin. ...	$\frac{1}{4}$ gr.	
	Pulv. Aloes ...	$\frac{1}{8}$ gr.	
	Pulv. Saponis ...	$\frac{1}{8}$ gr.	
	Ext. Nuc. Vom.	1-20th gr.	
	Pulv. Zingiber.	$\frac{1}{8}$ gr.	7*d.* gross, 18/-lb.

IMPORTANT!

CHANGES IN DISCOUNT.

The above depicts our new mode of putting up for the market Palatinoids and Bi-Palatinoids.

The following are the Terms of Sale and Discounts on our manufactures, which take effect November 15th, 1894.

WITH a view to the accommodation of our friends we will exchange all preparations of our manufacture that have not had the capsule, cork, or label removed from the package, and which are not in frequent demand for others of our preparations. Such exchange, however, to be made subject to the following conditions and exceptions:—

☞ *a* One week's notice to be given of the intended return of goods.
b Transportation expenses to and from London to be borne by the purchaser.
c Prices governing these transactions will be those ruling at date of shipment.

EXCEPTIONS—NOT EXCHANGEABLE.

a Articles which have deteriorated due to causes beyond our control.
b Articles which have been altered by removal of capsules, corks, or labels.
c Emergency cases, Improved Hypodermic Syringes, and the Globe Nebulizer.

DETERIORATION.

We are responsible for the deterioration of articles listed by us which have not been altered after leaving our laboratories, referring particularly to the removal of corks, capsules, or labels upon the package. We do not, however, hold ourselves responsible for losses incurred through decomposition of articles under the following stated conditions:—

a If the corks, capsules, or labels have been removed.
b Which have been exposed to the direct influence of sunlight, extreme heat, cold, or moisture.

BREAKAGES, &c.

Due care is exercised by us over the proper delivery of shipments to carriers at our warehouse. We cannot hold ourselves responsible for any losses which may occur in the forwarding of our preparations on any account whatever, unless such loss is directly traceable to causes existing in our offices or laboratories.

BOXES, &c.

Boxes are used for shipments in preference to hampers, and are not returnable, neither can we give credit for bottles or other empty packages.

TERMS.

Settlements for all invoices to be made on the Saturday on or preceding the 10th of the month following date of purchase.

All orders are accepted for delivery *ex warehouse* at prices ruling date of receipt, which, however, are subject to change without notice:—

Concentrated Liquors		10	per cent.
Cream of Malt, plain and combinations, small		30/- per doz., *less* 10 %	
" " " large		56/- per doz., *less* 10 %	
☞ In submitting orders for Cream of Malt preparations our friends will please specify combinations desired, otherwise, in the absence of same, PLAIN will be supplied.			
Emergency Cases..		10	per cent.
Ergole	oz.	10	"
Fluid Petrolatum	4 oz.	10	"
Glycerole Pepsinum-Oppenheimer ..	4 oz.	10	"
Improved Hypodermic Syringe		10	"
Palatinoids		10	"
Bipalatinoids		10	"
Pancreatin-Oppenheimer	oz.	10	"
Pepsinum-Oppenheimer, granular and powdered	oz.	10	"
Hamvirole		10	"
Soluble Hypodermics ..	{in tubes, each containing 20}	10	"
The Globe Nebulizer		10	"
Nebulizing Solutions	oz.	10	"

OPPENHEIMER, SON & CO., Limited, LONDON.

General Offices and Warehouse: 14 WORSHIP STREET, E.C.

Inland Telegraphic Address—"BI-PALATINOID LONDON."

Perfected Methods and Means.

LAWTON'S ABSORBENT COTTON.

Lawton's Absorbent Cotton Wool differs from the ordinary forms of cotton in that it possesses a beautiful downy flocculence. Its adaptability for surgical or gynæcological work will be appreciated when we state that it will take up nearly fourteen times its weight of blood, water, or pus. Its absorptive power can easily be demonstrated by dropping a small tuft of it on water. It is highly recommended for the preparation of medicated filaments, tampons, or bougies to carry such bodies as Creolin, Phenol, Iodoform, Dermatol, &c. A simple immersion into a solution and exposure to the atmosphere until dry is all that is required for this purpose. Lawton's Cotton, carrying Eucalyptia, or Pinol, or Terebene, or Phenolised compounds of these, answers remarkably well also as a filter in respirators.

Supplied to the Trade in 1-oz., 2-oz., 4-oz., and 16-oz. packets, at 4/6, 8/-, 12/6, and 36/- per dozen.

"VAPOROLES."

These are elegant little silken sacks, enclosing very friable glass capsules, each of which contains sufficient for one inhalation of any medicament commonly employed for the purpose.

The British Medical Journal says:—"Of these very useful Vaporoles each one is marked with a number. On reference to a list sent, the prescriber can ascertain to which Vaporole each number corresponds, since it is not always desirable that a patient should know what remedy is being prescribed."

LIST OF "VAPOROLES."

1. Vaporole Carbolic Acid, 20 minims.
2. " Ether, 30 minims.
3. " Amyl Nitrite, 5 minims.
4. " Tinct. Benzoin Co., 30 minims.
5. " Chloroform, 30 minims.
6. " Creosote, 10 minims.
7. " Cubebs and Lemon, 5 minims.
8. " Iodine Tinct., 10 minims.
9. " Juniper, 2½ minims.
10. " Terebene, 10 minims.
11. " Pinol, 10 minims.
12. " "Eucalyptia," 10 minims.
13. " Amyl Nitrite, 3 minims.
14. " Ol. Pini Sylvestris, 5 minims.
15. " Ol. Calam. Aromat., 1 minim.

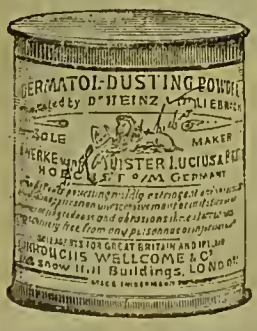
FOR AURAL USE.

16. " Iodoform Solution in Pinol (1 in 7), 7 minims.
17. " Iodoform Solution in "Eucalyptia" (1 in 7), 7 minims.
18. " Iodine Tincture, 5 minims.

Supplied to the Trade in boxes, each containing 12 Vaporoles, at 24/- per dozen boxes.

DERMATOL DUSTING POWDER.

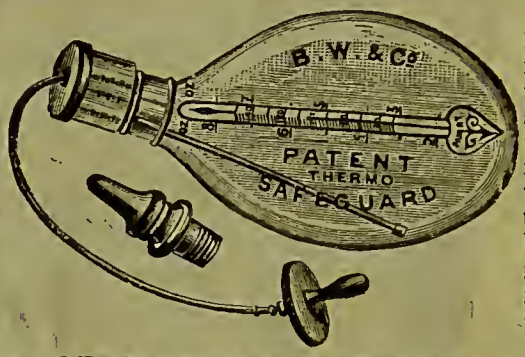
Is a perfect preparation for Toilet and Nursery uses. The formula was originally suggested by Drs. Heinz and Liebrecht with the view of embodying and utilising the valuable properties of Dermatol for the daily requirements indicated.



This new Toilet Powder may be relied upon as being absolutely non-poisonous, free from odour and from all irritating material. The properties of Dermatol either as a vulnerary or for its soothing effect in chafed and irritable conditions of the skin, and its drying and antiseptic character are well known and recognised in many memoirs that have appeared of late; and, when this fact is considered, the Dermatol Dusting Powder, which is a combination of Dermatol with pure rice starch powder, will readily recommend itself as a high-class toilet preparation. In boxes containing 50 grammes (about 1½ oz.) each.

Dermatol Dusting Powder supplied to the Trade at 7/8 per dozen boxes.

THE PATENT THERMO-SAFEGUARD FEEDING BOTTLE (B., W. & CO.)



This Feeding Bottle differs from all others in the fact that a thermometer, which instantly registers the temperature of the food, is embedded in the glass. It is also graduated in ounces. The Thermo-safeguard Feeding Bottle enables the nurse to ascertain at all times the temperature of the food given to the child. The Bottle is made of flint glass of the most approved shape, and has no angles in which the milk can coagulate. It has the further advantage (since the bottle is marked in ounces) of giving a register of the exact amount of food taken, and thus tends to avert the evil of over-feeding.

"The bottle has a great deal to recommend it."
—British Medical Journal.

Prices to the Trade:—No. I., 10/6; No. II., 14/-; No. III., 22/- per dozen.

ARTIFICIAL EAR-DRUMS.

These, as designed by Dr. Ward Cousins, consist of miniature cones, made of compressed cotton coated with

plastic collodion and rendered antiseptic. As was demonstrated in the Otological Section at a meeting of the British Medical Association a year or two ago, these Artificial Ear-drums are highly successful in cases of perforation of the tympanum, giving real relief in many cases of deafness. The patients upon whom the effect of these tympana was shown derived benefit immediately upon introduction, and the aurists present testified their approval and commendation of these little cones both as to their structure and use. They are easily inserted by the patients themselves (by means of a combined holder and forceps), and can be very easily removed. Moreover, while in position in the aural meatus, they are scarcely noticeable to the eye, are thoroughly antiseptic, and never cause any inconvenience or irritation. They are supplied in four sizes, Nos. 1, 2, 3, and 4.

Supplied to the Trade in boxes containing three dozen, at 8/6 per dozen boxes. Probe and forceps combined, for insertion and extraction of the drums, 8/- per dozen.

Burroughs, Wellcome & Co., Manufacturing Chemists, Snow Hill Buildings, LONDON, E.C.

NEW YORK—Rhinelander Building, ose & Duane Streets.
MELBOURNE—456 Collins Street West.
PARIS—Pharmacie Centrale de France.
BRUSSELS—Chas. Delacre & Co.
VIENNA—The Feld Apotheke, Stefansplatz 8.
TRIESTE—Pharmacie Serravallo. | BUDAPEST—Pharmacie Torok.

Cable and Telegraphic Address—"BURCOME LONDON."

"LANOLINE"

Every Chemist

SHOULD USE

"LANOLINE" AS AN OINTMENT BASE,

AS IT

never turns rancid;

admits of the admixture of any quantity of water;

confers stability and permanence on ointments prepared with it.

UNGUENTUM LANOLINI

is an Ointment

WHICH CONSISTS OF

"LANOLINE" and 30 per cent. of Soft Paraffin B.P.

UNGT. LANOLINI is comparatively inexpensive.

UNGT. LANOLINI is non-sticky.

TOILET "LANOLINE."

A SUPERIOR PREPARATION FOR THE SKIN.

IN TUBES CONVENIENT FOR USE IN

SUNBURN, CHAFING, CHAPPING, REDNESS, AND WRINKLING OF THE SKIN.

"LANOLINE" and its preparations, Soaps, Pomades, &c., can be obtained from

BURROUGHS, WELLCOME & CO.

SNOW HILL BUILDINGS, LONDON, E.C.

VOICE "TABLOIDS."

COMPOSED OF

COCAINE, CHLORATE OF POTASSIUM, and BORAX.

Impart a clear and silvery tone to the voice.

Easily retained in the mouth whilst singing or speaking.

Now used by the leading singers and public speakers throughout the world.

DIRECTIONS.—A single "Tabloid" may be slowly dissolved in the mouth to remove huskiness or hoarseness.

Supplied to the Trade in beautifully-graven white-metal boxes, blue silk labels, 30 and 80 in. each, 7/6 and 15/- per doz.; Vinaigrette Oval Bottles, 30 in each, 8/- per doz.

BURROUGHS, WELLCOME & CO., Snow Hill Buildings, E.C.

PERFUMES

(FINEST TRIPLE).

White Rose
" Violet
" Heliotrope
" Hyacinth
Wallflower

IN BULK

Also Tastefully put up for RETAIL SALE in 1, 2, 4 and 8 ounce Globe-stoppered Bottles, and 1 and 2 ounce Bottles, fitted with patent metallic sprinklers.

Gardenia
Mignonette
Clove Pink
Lily of the Valley
Honeysuckle

SAMPLES AND PRICES ON APPLICATION TO

Wright, Layman & Umney

48 & 50 SOUTHWARK STREET, LONDON, [S.E.]

Telegrams—"UMNEY LONDON." Telephone 4608.

The Chemist & Druggist SUPPLEMENT.

Businesses Wanted
Businesses for Disposal
Premises to Let
Auction Sales

SATURDAY, NOVEMBER 17, 1894.

Partnerships
Situations Vacant
Situations Wanted
Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

THE OBJECT OF

Advertising is the expeditious settlement of business. It is in that that this Supplement scores. All Advertisements herein are inserted on behalf of those who mean business. Some want Assistants, others Situations, Businesses, &c., and they find it profitable to fill their wants through the Supplement; otherwise they would not pay for their Advertisements in advance. Doubtless the reputation of THE CHEMIST AND DRUGGIST itself has influenced the popularity of this Supplement, but the independent facts remain—(1) it has the largest circulation; (2) a unique method of distribution; and (3) secures the quickest response to small Advertisements.

CHEMISTS' TRANSFERS.

MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C.

CHEMISTS' TRANSFER AGENTS,

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

The business conducted by Messrs. ORRIDGE & Co. has been known as a Transfer Agency since the year 1846, and is well known to all the leading firms in the Trade. VENDORS have the advantage of obtaining an opinion on value derived from extensive experience, and are in most cases enabled to avoid an infinity of trouble by making a selection from a list of applicants for purchase, with the view of submitting confidential particulars to those alone who are most likely to possess business qualifications and adequate means for investment. PURCHASERS who desire early information regarding eligible opportunities for entering business will greatly facilitate their object by describing clearly the class of connection they wish to obtain.

1.—£3,000.—**LONDON** (City).—First-class Pharmacy, with Wholesale attached; returns about £3,000, *net profit* nearly £700 per annum; position good; ample stock with well-fitted shop and good laboratory; small goodwill; stock and fixtures at valuation.

2.—£800.—**LONDON, W.C.**—Small Wholesale, chiefly special preparations entirely of a Proprietary nature; returns average between £700 and £800 yearly; laboratory fitted with all the necessary plant, including engine and boiler; no retail shop; price £750.

3.—£586.—**LONDON (SUBURBAN).**—Retail and Prescribing Business; situate in main thoroughfare; returns for 1893 £586, nearly; *good profits*; convenient house, with bath-room, &c.; very low rental, on lease; price £350; good opening for an energetic man.

4.—£500.—**LONDON** (Kilburn District).—For immediate disposal, an old-established Business, situate in the main thoroughfare; the Vendor, being called upon to take to a country Business in consequence of illness of a relative, is prepared to make a considerable sacrifice; the present returns are at the rate of £500 yearly; very good house, &c.; must be sold.

5.—£800.—**LONDON** (Eastern Suburb).—Middle-class Dispensing Business situate in busy, increasing locality; returns present rate £800 yearly, *net profit one-third*; double-fronted, handsomely-fitted shop; good house; low rent; long lease; price £600.

6.—£200.—**LONDON** (W.C. District).—Dispensing and Retail Business; has been greatly neglected; capital central position; very old-established concern; large proportion of rent let off; gentlemen prepared to invest £200 will find this a good investment.

7.—£650.—**LONDON, W.**—Retail, Prescribing, and Dispensing Business; returns £650 yearly; *profits larger than usual*; well-fitted shop and good stock, &c.; convenient house, private entrance, &c.; price £450; vendor retiring from business.

8.—£1,500.—**NORFOLK.**—Good-class Mixed Business, very old established; large county connection; returns £1,500 yearly; very well-fitted shop and good stock; full investigation will be permitted; valuation of stock and fixtures if desired, or lump sum about £1,200.

9.—£1,250.—**HALF-AN-HOUR'S JOURNEY FROM TOWN.** Old-established mixed business, situate in the centre of market-place; returns nearly £1,250 yearly; all good prices; good sized shop; convenient house and large garden, &c.; about £1,100 required, or valuation terms can be arranged. . . .

10.—£350.—**SURREY.**—Middle-class, good Prescribing Business; established nearly half a century; returns present rate £7 weekly; well-fitted single-fronted shop; convenient house with garden and fruit-trees; low rent on lease, &c.; price £300.

11.—£1,126.—**KENT.**—Good-class Retail and Dispensing; no heavy business of any description; established 1811; returns average £1,126 yearly; net profit over £400 per annum; single-fronted shop; fitted in mahogany and plate-glass; house contains 11 rooms and basement; long lease; the price required, £1,100.

12.—£250.—**PORTSMOUTH.**—Light Retail and Prescribing Business situate in good position; returns £250, yearly, chiefly medicine; nicely-fitted shop and ample stock; good house; low rental, &c.; price about £250 or offer.

13.—£900.—**ONE HOUR'S JOURNEY FROM TOWN.**—Dispensing and Retail Business, situate in a favourite town; handsome corner shop; returns between £800 and £900 yearly, *net profits* nearly £400 yearly; good house, long lease, &c.; price about £750.

14.—£800.—**SOUTH COAST.**—Good-class Retail and Dispensing Business; situate in a fashionable watering-place (fine position); returns between £700 and £800 yearly; very good profits; double-fronted shop and good house; price about £600; worth the attention of a gentleman used to good-class business.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

Other Businesses, Town and Country. Particulars free on application. Personal applicants receive Messrs. O. & Co.'s direct attention and advice, where required, free.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION.

Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the especial attention of a London Agent.

SPECIAL NOTICE.—Messrs. ORRIDGE & CO. have a large number of Businesses for Sale, suitable for Gentlemen with Small Capital, from £200 to £500.

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Valuer, 60 St. Stephen's Road, LEICESTER.

References to principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.

BUSINESSES THOROUGHLY INVESTIGATED FOR BUYERS. 20 YEARS' EXPERIENCE.

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STOCKTAKING UNNECESSARY.—Stocktaking is always dreaded by Chemists, and with a competent Valuer is not necessary.

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STOCKS AND FIXTURES BOUGHT FOR CASH.

MON.—Light Retail, in picturesque locality; rent £26; returns £500; price £400.

YORKS.—£800 returns; finely-fitted shop, in best position of large town; well suited for doing large cash trade; valuation about £750.

LONDON, N.W.—£870 returns; Cash Retail and Dispensing; price £600.

MIDLANDS.—£1,100 returns; good-class Country Retail; large house; price £800.

BERDOE & CO.

CHEMISTS' TRANSFER AGENTS AND VALUERS,

30 JEWRY STREET, ALDGATE, E.C.

Established 1870.

NOTICE TO VENDORS.

Having been for the past 23 years solely engaged in the Sale, Purchase, and Valuation of Chemists' Businesses, we have, as Transfer Agents and Valuers, the largest experience of any in the Trade. VENDORS placing their businesses in our hands for transfer may in all cases rely upon a speedy sale being effected without undue publicity. Terms forwarded post free on application. No sale, no charge.

BUSINESSES WANTED.

NO CHARGE TO PURCHASERS.

1.—SOUTH COAST.—Good-class Retail and Dispensing Business; excellent position; large town; net profit £450; price £1,100.

2.—KENT.—Old established Retail and Prescribing Business; returns nearly £700, at full prices, nothing cut; price £600.

3.—SOMERSET.—Retail and Prescribing Business; returns £500 under management; rent £30; good house; price £350.

4.—KENT COAST.—Retail Dispensing and Prescribing Business; returns £650; good house; low rent; price £500, or offer.

5.—NORFOLK.—Unopposed Retail and Prescribing Business; rent £20; good house and garden; returns £550; price £225.

6.—MIDLANDS.—Unopposed Retail and Prescribing Business; returns £350; rent and taxes £20; price £200, well stocked.

7.—KENDAL.—Retail and Prescribing Business, good position; returns £400; expenses low; price £150 or valuation.

8.—LICHFIELD.—Small Ready-money Retail; returning £250; good profits; price £200; low rent; good house.

9.—LONDON, W.—Retail, Dispensing, and Prescribing Business; returns £1,360, net profit £370; price £850.

10.—LONDON, N.W. Retail, Dispensing, and Prescribing Business; returns £864; net profit £400; price £600.

VALUATIONS.

SPECIAL ATTENTION is paid to Valuations, which are personally conducted by a member of the firm, in any part of the United Kingdom. Our terms, which are moderate, may be had on application.

Berdoe & Co., 30 Jewry Street, Aldgate, E.C.

THOMAS TOMLINSON & SON

Chemists' Consultants, Investigators, Transfer Agents, and Valuers,

9 NEW CANNON ST., MANCHESTER.

Forty-four years' experience, during which period they have transferred, valued, or arbitrated over 1,000 Businesses.

WE have many inquiries for Businesses in large towns with suitable premises for doing an extended trade. The utmost secrecy may be relied upon, and, on viewing and found not suitable, decision will at once be given and verdict pronounced without detriment to the Business.

Businesses for disposal at Torquay, Derby, Preston (2), Manchester (5), Boston, Cleethorpes, Wakefield, Scarborough, Barnsley, Kensington, Newton Abbot, Cheshire, Paddington, Oldham, Liverpool (8), Accrington, Redditch, Skipton, Sheffield, Southport, Maidenhead, Essex, Bolsover, Derby, Camden Town, one 10 miles North of London, Kendal, exceptional opportunity in small town, Lancashire; St. Helens, Burnley, Crewe, and a Dental Practice in Yorkshire.

NO CHARGE TO PURCHASERS.

Telegraphic Address—"TOMTOM."

CROCKER & CO.

Sole Proprietors—Mr. WILLIAM JUDD and Mr. ALFRED MANNERS,

Trade Valuers, Transfer Agents, and Accountants,

15 WALBROOK, E.C.

Valuations made for Probate or Transfer, Books Audited and Balance Sheets prepared in any part of the United Kingdom.

EASTERN COUNTIES.—An old-established Country Business, in same family about half a century; returns approach £2,000 yearly; rent £50. Price £1,100, or valuation terms can be arranged.

SEASIDE.—Old-established Family and Dispensing Business in best part of pleasant health resort; returns £1,150; price £1,100; handsomely-fitted pharmacy and good house.

HOME COUNTIES.—Partnership offered in good-class Family and Dispensing Business; returns £3,000; good terms to a suitable gentleman.

LONDON, W.—Good-class Retail and Dispensing Business; returns £1,400; net profits exceptionally good; price £1,200.

NO CHARGE TO PURCHASERS.

Valuations a Specialty. Terms on application.

BUSINESSES WANTED.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

A QUALIFIED Dentist would like to meet with rooms to practise at a first-class Chemist's, where there is a good opening for one day a week; county of Essex preferred. D., Shelly Hall, Ongar, Essex.

A LIGHT Retail and Dispensing Business, returning about £2,000; London preferred, but good provincial town not objected to. "Fergus," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, a good-class genuine reliable Retail Business, with scope for large increase; price about £450; a Limited partnership might be arranged; no agents. Full particulars to "Tenrub," 175 Kentish Town Road, N.W.

£1,000.—Advertiser will purchase for immediate cash Dispensing Business returning £1,000 or £1,500; reference given; only vendors of Light Businesses treated with. "Prescriber," c/o Messrs. Barron, Harvey & Co., Giltspur Street, London.

A GOOD-CLASS Retail, Dispensing, and Prescribing Business, in the Midlands, south or south-west of England preferred; returns £800 to £1,500; a fair profit must be shown, and the books open to investigation. H. C., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, to invest £400 in a good-class Retail and Dispensing Business in Provincial Town, and to take part, or entire management with view to succession, or purchase of a business where part capital can remain. "Minor," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

HULL.—Returns £330; a good Prescriber and Extractor could largely increase; valuation (about £160) only required; must be sold. Address, 161 Beverley Road, Hull.

GENUINE Light Retail, Prescribing, and Dispensing Business; returns £6 weekly, good profit; rent £30; price £250, including stock and fixtures. J. K., Post Office, Whetstone, N.

CHEMISTS.—For immediate disposal, through age and infirmity, a genuine Business in a pleasant suburb of London; price £400. Address, S. W., Miss Atkinson, 40A King William Street, London Bridge.

A GOOD Business in large growing district of Midland town for disposal; doing now about £800, which could with attention be doubled; price £700. Apply, "Beta," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BIRMINGHAM.—Chemist, Druggist, and Surgeon-Dentist's; doing excellent business; £550, including valuable stock; open to offer; present hands 20 years. Address, "Lanolin," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

FOR Sale, old-established Mixed Business; in present hands 28 years, owner retiring; price £200, or valuation; no goodwill; stock can be reduced if wished; well-fitted shop, with plate-glass front, and 7-roomed house; rent £20. Apply, W., Emery House, Boston.

GLASGOW.—First-class Retail and Dispensing Business for sale; shop situated in a leading thoroughfare; is fitted up splendidly, and has consulting-room attached; turnover about £550 per annum; easy ingoing. Particulars from John Meikle, Accountant, 157A Hope Street, Glasgow.

SITUATIONS WANTED—Cont.

LOCUM Tenens; disengaged; qualified. "Chemist," 32 Laurel Grove, Penge.

LOCUM; disengaged; qualified; 27; best references. H., 13 Peter Street, Yeovil.

JUNIOR ASSISTANT; 20½; 5 years' good experience. V., 37 High Street, Buxton.

JUNIOR or Improver; nearly 21; good references. E. S., 11 Whitehouse Street, Bristol.

JUNIOR; quick, accurate Dispenser; Extract Teeth. Widdowson, 362 City Road, E.C.

JUNIOR; aged 23; 7½ years' experience; disengaged. Mill, jun., Bodmeyrie, Holsworthy.

MANAGER; outdoors; qualified; 38; abstainer. "Chemicus," 112 Foxberry Road, Brockley.

SURGEON'S Son; part-time dispensership; extractor. H. M. Hardy, 129 Dulwich Grove, S.E.

LOCUM or Manager by an M.P.S.; West-end experience. P. S., 50 Rylett Road, Shepherd's Bush, W.

DISPENSER to Doctor, two hours daily; Minor student. "Encalyptus," 204 The Grove, Camberwell.

ASSISTANT; 30; good experience; disengaged. "Beta," 70 Old Christchurch Road, Bournemouth.

WEST-END, City experience; aged 27; tall; qualified; outdoors. Z., 27 Smith Square, Westminster.

PART-TIME; qualified; experienced; aged 27; Chemist or Surgeon. "Pre. Sci.," 30 Paris Street, S.E.

ASSISTANT; 26; experienced; London or South Coast preferred. Francoise, 71 Tontine Street, Folkestone.

COMMISSION.—Drugs, Perfumery, Sundries; good references. Collins, 9 Walford Road, Stoke Newington.

MANAGER; 30; qualified; experienced; good address; London preferred. Jones, 30 Grove Road, Eastbourne.

ASSISTANT or Manager; town or country; age 25; good experience. Minor, 30 St. Thomas Street, Netherton, Dudley.

ASSISTANT; 25; outdoors; West-end of London experience; good Counterman and Extractor. Davies, Llaneroh, Llanelly.

JUNIOR, qualified, aged 22, seeks engagement in West-end Dispensing business. A. S., 1 Lansdowne Gardens, South Lambeth, S.W.

SURGEON'S Dispenser; highest references from medical men and chemists; disengaged. Dispenser, 56 Hills Road, Cambridge.

AS General permanent Assistant; unqualified; abstainer; good references; moderate salary. Collis, 197 St. James' Road, Croydon.

MANAGER or Assistant; experienced; qualified. "Domus," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MINOR; 25; outdoors; references; all-round experience. 281/20, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER or Assistant; qualified; married; aged 40; thoroughly experienced; disengaged. "Chemicus," 21 King Street, Dudley.

BRANCH Management or outdoor Assistant; age 27; 8 years' London experience; highest references. Idris, 31 Taplow Street, City Road.

ASSISTANT; 26; 13 years' experience; good references; London or suburbs; time for study. Dodridge, 84 Derby Road, Southampton.

MANAGER or Senior; 6 years in last situation, 4 years manager; qualified; aged 29; disengaged. "Chemist," 42 Fenchurch Street.

LOCUM-TENENS; engagements wanted to fill next six months; references and terms on application. "Major," 35 Western Road, Brighton.

ASSISTANT; 24; outdoors preferred; accustomed to good, brisk business; good references. Fletcher, 27 North Gwyther Street, Pembroke Dock.

LOCUM, temporary or part-time; 10½ years' varied experience; 26; unqualified; satisfactory references. "Locum," c/o Pattinson, Chemist, Carlisle.

JUNIOR or Improver; 21; abstainer; disengaged. "Statin," c/o Robinson, Hucknall, Huthwaite, Notts.

QUALIFIED Assistant; 22; in good Dispensing business. T. Wardley, 27 Valmar Road, Denmark Hill, S.E.

MANAGER or Locum-tenens; qualified; thoroughly experienced. X. Y. Z., 208 Seven Sisters Road, N.

ASSISTANT; qualified; Nottingham or neighbourhood; aged 25; outdoors; disengaged. E. H. Aves, Mansfield.

ASSISTANT; 24; unqualified; Prescriber, Extractor; thoroughly competent. J. D., Portland Villa, Stourbridge.

ASSISTANT; qualified; London and Continental experience; aged 24; outdoors. R., 13 Brunswick Square, W.C.

IMPROVER; 18; tall; 2½ years' experience; passed Cambridge Local; disengaged. Hughes, 2 Bersham Road, Wrexham.

LADY, as Improver; passed Apothecaries' Hall and Prelim.; aged 23; had experience. L. A. B., 69 Church Street, Drypool, Hull.

QUALIFIED; abstainer; 28; 5 ft. 9½ in.; indoors; good references; Lancashire preferred, but not essential. Haden, 55 Frog Lane, Wigan.

A CHEMIST and Druggist by exam., aged 41, seeks engagement; London experience. C. M., 181 Church Street, Stoke Newington, N.

COMPETENT Assistant; 26; 5 ft. 10 in.; over 11 years' good experience; references. Address, X. Y. Z., 30 Harbour Street, Ramsgate.

QUALIFIED Chemist, entering hospital, desires berth as Dispenser with Medical man; time for study, &c., required. Holmes, 2 Colville Square, W.

MANAGER or Assistant; qualified; aged 24; height 5 ft. 10½ in.; 9 years' experience; references sent. "Minor," 39 Bradford Road North, Huddersfield.

QUALIFIED Assistant; 7 years' experience; good references; 5ft. 10 in.; Lancashire preferred. W. Dickinson, Richmond Terrace, Ripon Street, Preston.

ASSISTANT or Dispenser; unqualified; aged 24; disengaged; excellent references. G., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

EVENING duty undertaken; qualified; rapid Dispenser, neat bookkeeper. Address, "London," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MINOR; 23; in good dispensing business; Birmingham preferred; reference permitted to Mr. F. H. Alcock, Birmingham. W. Sadler, The Uplands, Tamworth.

TALL; 10 years' good experience; references; unqualified; 26; country district with easy hours preferred; abstainer. "Chemicus," 21 Cavendish Place, Carlisle.

AS Housekeeper.—Cruse & Co., Chemists, Southsea, can thoroughly recommend a respectable person who has filled a similar situation in one of their establishments.

TRAVELLER; 12 years' good business experience; gentlemanly address; abstainer; Drug or allied trade. "Chemist," Sea Houses, Chathill, Northumberland.

A CHEMIST wishes to recommend a lady (34) as Housekeeper or Companion to invalid; thoroughly domesticated; fond of children. Address, A. P. S., Louth, Lincs.

MR. BILLINGTON, A.Ph.S. (Lond.), Cheetham, Manchester, can recommend his Apprentice as Junior in good-class retail and dispensing establishment (out-doors).

DISPENSER (Frenchman); unqualified; speaks English fluently; certificate for dispensing. "Omega," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

DISENGAGED; unqualified; Branch Manager or Assistant; all-round experience; good references; abstainer (36), single; "Chemicus," 12 Chapel Street, Uxbridge.

JUNIOR in Light Retail and Dispensing; aged 20; height 5 ft. 9 in.; 5 years' experience; abstainer; excellent references. Thos. Hitt Fairlight, Long Eaton, Derbyshire.

ASSISTANT, accustomed to good-class Retail and Dispensing; good all-round experience; aged 24; height 5 ft. 9 in. H. Robinson, 50 Tunis Road, Shepherd's Bush, W.

PERMANENCY as Manager or Dispenser; qualified; married; first-class West-end experience; 12 years' manager in last situation. H. S., 42 Priory Park Road, Kilburn, N.W.

SITUATIONS OPEN—Cont.

SMART, gentlemanly Junior for City Store trade; about 20. Send full particulars, to N., 16 Clovelly Mansions, Gray's Inn Road, W.C.

ELDERLY qualified Assistant, with idea of Store system. Full particulars and salary required to T. W., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£2 WEEKLY; qualified Dispenser; must be quick and accurate; No Sunday or Bank Holiday duty. Apply personally, to W. Burrows, 243 Brompton Road, S.W.

JUNIOR, or Improver wanted at once. State experience, age, salary required (indoors), and enclose photo (to be returned), J. Richardson, Chemist, Hadfield, near Manchester.

LANE & FOOT, 6 Seven Sisters Road, Holloway Road, N., require a smart, gentlemanly Assistant for Cash Retail and Dispensing business about November 26; permanency (indoors).

WANTED, qualified Assistant, good counterman, aged about 24, for good-class Retail and Dispensing business; state full particulars, salary, &c. Ross Sergeant, 20 Long Row, Nottingham.

CLERK wanted, experienced in Bookkeeping and Drug-invoicing. Apply, stating age, salary required and late employers, to J. W., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

NATHANIEL SMITH & CO. require a competent, qualified, outdoor Assistant for dispensing-counter. Applicant will please state full particulars, with references, to 373 High Street, Cheltenham.

A SMART qualified Assistant, about 24, at once; references must be undeniable; indoors; good progressive salary to the right man. Full particulars and photo to 95 Waller Road, New Cross Gate, S.E.

GOOD Commission offered to reliable man calling on Chemists' Proprietary; references confidence; splendid offer to pushing man. 267/14, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

EASTBOURNE.—Wanted, by the end of this month, a Dispenser and Bookkeeper. Apply, with particulars, photo, and salary required (outdoors), to Drs. Hangood & MacQueen, Stafford House, Eastbourne.

WANTED a Junior Assistant, aged about 22; must have been accustomed to high-class Dispensing. Apply, stating salary, height and references, with particulars of experience, to Whiston & Co., Chemists, Bath.

WANTED, about December 12, Junior or Improver, about 20, indoors; one accustomed to Dispensing; time for study if required. Enclose carte, stating age, height, references, &c., to A. C. Olds, Chemist, Bath.

A QUALIFIED Assistant of good experience and address (married, without encumbrance entertained, indoors) requiring a permanency would meet with liberal treatment from Ralph Hall, 552 Kingsland Road, N.E.

TRAVELLER wanted, having a connection amongst Chemists; a good reliable man. Apply by letter, stating full particulars as to terms, &c., also experience, 178/34, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

QUALIFIED (preferred) Assistant, aged about 23, for a Suburb; state age, height, salary required, experience, and reference (indoors), with photo (to be returned). "Senna," c/o Messrs. A. S. Hill & Son, 101 Southwark Street, S.E.

INDIA.—Wanted, an Assistant, with Minor qualification; age from 21 to 24 years; good Dispenser; four years' engagement; second-class passage paid out. Apply, Export Department, S. Maw, Son, & Thompson, Aldersgate Street, London.

REQUIRED, in the early new year, a Traveller having a connection within about 12 to 20 miles round London; state style of customer, returns, experience, salary, &c., to "Ajax," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, an active Assistant for the Counter, and to assist in Dispensing; qualified preferred. Reply, with full particulars, enclosing reference and salary required (outdoors), to James Stewart, 389 High Street, Cheltenham.

ASSISTANT for Bombay; must have passed Minor, had country experience, and not more than 24 years old. Apply, stating full particulars, in confidence, to "Bombay," c/o Hodgkinson, Prestons & King, 81 Bishopsgate Street Without, London, E.C.

QUALIFIED Junior, about 22 or 23, of good appearance and address, wanted for a first-class West-end business where several are kept; must have had good Dispensing experience. Apply, "Correspondence Office," S. Maw, Son & Thompson, 12 Aldersgate Street, E.C.

WANTED, an active Junior Assistant by first week in December; aged 20 to 22; accustomed to a Country Retail and Dispensing Business. Apply, stating age, height, experience, salary required (indoors), with references and photo, to E. Jenkins, Chemist, Faversham.

ASSISTANT wanted, immediately. Apply personally, if possible, to Heppell & Co., 35 Haymarket, S.W.

WANTED, a Junior (indoors); a neat writer, and one able to dispense. Apply, stating age, height, and salary required, enclosing photo, to Adams, 21 Formosa Street, Maida Vale, London, W.

SMART gentlemanly Junior wanted, able to Dispense, put up stock, or attend Counter, as required; accustomed to high-class trade; age about 21; outdoors. X. Y. Z., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT wanted; Minor; age about 23; accustomed to good Dispensing and Counter; two kept; indoor; sleep out. Apply, giving full particulars personally, or by letter with photo, to C. Coutts Michie, 175 Kentish Town Road, London, N.W.

JUNIOR Clerk wanted in the counting-house of a Manufacturing Chemist and Wholesale Druggist; must be quick, industrious, write a neat hand, and have some knowledge of the trade. Apply, by letter only, to S. K., c/o Messrs. Dawson & Sons, 161 Cannon Street, E.C.

AT ONCE.—A Junior Assistant of good address and experience; Cash business; indoors; the usual early evening each week, time off each morning, half a holiday each month, Sunday duty every fourth Sunday. Apply, personally, or by letter to Blackham, 675 Holloway Road, Upper Holloway, N.

TO Travellers in Drugs or Druggist's Sundries.—I am prepared to pay a commission of 50 per cent. on all business introduced, town or country. In very few cases will business clash with present engagement. Full particulars on application, "Ferrum," 47 Malden Road, Prince Wales Road, London, N.W.

WANTED, trustworthy, qualified man, about 30, married, to manage Dispensing Business and reside on the premises, convenient house; must be of good address, energetic, and able to extract teeth; highest references essential. Address with full particulars, to "Manager," 50 Hartington Road, Liverpool S.

WANTED, qualified Branch Manager, at once; one used to store trade preferred (permanency to a good man); 2 guineas per week and commission, which is from 3s. to 5s. per week; no Sunday duty, also weekly half-holiday; aged about 25 to 35. Apply, with usual particulars, to L. S., c/o Raimes & Co., Druggists, York.

WANTED, an unqualified Assistant; must be energetic, of good address, have some knowledge of Photography. State age, height, salary (indoors), experience; send photo (promptly returned), and give references; only applications with full information on these points will be considered, The Central Pharmacy, Croydon.

JUNIOR Assistant wanted, for good-class Dispensing business; some knowledge of Photographic trade an advantage; abstainer preferred and good reference indispensable; aged about 20. Please state when disengaged, salary (indoors) and usual particulars and send photo, to "Ph. C.," 2 Essex Grove, Upper Norwood, S.E.

GENTLEMANLY Assistant (indoors); energetic and accustomed to country trade; abstainer, unmarried, and thoroughly steady; state age, height, references, salary required, when at liberty, and full particulars; applications not answered within three days declined. Fleeming & Son, Pharmaceutical Chemists, Wolverhampton.

WANTED, Junior, unqualified (outdoors), with experience of good General trade; must be a capable Counterman and Dispenser; able to Extract Teeth and thoroughly reliable; one with a knowledge of Agricultural or Shipping trade preferred; a permanent engagement with progressive salary. Apply, G. M., c/o Raimes & Co., York.

WANTED, in an old-established family business, a qualified indoor Assistant; one who can extract preferred; the business is situate in a Midland market town, and would be a comfortable and permanent situation, with short hours, to a suitable man. Address, stating age, qualification, and salary, to R., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SITUATIONS WANTED.

1s. for 12 words; 6d. for every 6 words beyond.

JUNIOR; disengaged; 4 years' experience. Woodall, 22 Burton Road, Lincoln.

LOCUM, qualified; South Coast; 32; good address. H., 134 High Holborn, W.C.

WHOLESALE; young man; 22; 7 years' reference. V., 56 Kennington Road, S.E.

DISPENSER to Doctor; two hours daily; Minor student. "Chemicus," 77 Atlantic Road, Brixton.

BUSINESSES FOR DISPOSAL—Cont.

LONDON, N.—Light Retail and Prescribing, with some Dispensing; plate-glass fronts, large corner shop, large and convenient house, with side entrance and garden; returns at present over £300; low price for immediate sale. Particulars from J. A. Y., Hill & Sons, Southwark Street, S.E.

Re THOMAS WOOD, Chemist and Drysalter, Cheapside, Bolton.

THE Goodwill, Fixtures, Utensils of this Business, established over 50 years, for disposal; stock at a valuation. For particulars, and to treat, apply Russell & Walmsley, Accountants, 39 Mawdsley Street, Bolton.

YORKSHIRE.—Chemist's Business for immediate disposal in busy manufacturing town; doing a good store-trade; capital stock, at fair valuation; certain success for enterprising man; turnover £1,000 per annum. Address, 278/14, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

A SOUND investment.—Family Dispensing and Prescribing Business, returning £600; good prices; totally unopposed; in population of over 5,000; within 20 miles of London; rent, £35; excellent house and garden; price asked, £450. "Vin. Carnis," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WEST-END of London.—Retail and Prescribing Business; returns £9 weekly; shop is well situated in an unopposed position, and is well fitted and stocked; vendor, leaving on account of illness, will accept valuation of stock and fixtures. 21/12, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

HOME County, within 20 miles south of London; unopposed Retail, Dispensing and prescribing Business; returns over £600 at excellent prices; rent £35; good house, with garden; well-fitted and stocked shop; price £450. 62/26, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

EAST London Suburb; a Light Retail and Prescribing Business, with Post-office attached; returns under management, £9 to £10 per week; P.O. pays £70; rent £45; net profit £250; price £350; trial allowed, and every investigation courted. "Kino," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

CHEMIST'S Business, in one of the best Midland towns; established 40 years; good ready-money trade; carried on under management since death of proprietor; good house and shop, well fitted (quite private), which may be had on lease from the Executors if desired. Apply, "Executor," 23 Lichfield Street, Walsall.

TO Chemists and Druggists.—For Sale, as a current going concern, the Business at No. 2 Clive Street, North Shields, for many years carried on by the late Mr. Robert Forth, and now in the occupation of Mr. A. Cowan. For further particulars apply to Gardner, Carr & Co., Chartered Accountants, St. Nicholas Chambers, Newcastle-on-Tyne.

GENUINE good-class Dispensing and Light Retail Business for Disposal (established 50 years), in main thoroughfare; good stock and fixtures; convenient 9-roomed house (side entrance); low rent on lease; returns £350; no patents; price to immediate purchaser £130; as this is *bonâ fide*, only purchasers need apply to H.W., 94 Harrow Road, London, W.

LIVERPOOL; rising suburb; best position: first-class Dispensing and Family Business; capital required £1,700; to anyone requiring a sound investment this is an exceptional opportunity; *bonâ-fide* purchasers and those only possessing the necessary capital treated with; references required. "Sanitas," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

YORKSHIRE.—Light Retail and Prescribing Cash Business; good position; no opposition for 3 miles; this double-fronted Pharmacy is handsomely fitted, and stocked above average value for its size; good prices except patents; returns, £500 and increasing; good house, with plot of ground; rent £26. "Chloroform," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

EXCEPTIONAL opportunity.—Prosperous Prescribing and General Retail Business for Sale; price £500 cash, or £50 goodwill and valuation; part purchase-money may remain if desired; heavily stocked; particulars to *bonâ-fide* purchasers only applying with references; fortune in few years to energetic man. 280/16, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

PRESTON.—The old Drug Shop, "Taylor's, estab. 1815"; best position in town, with good house, warehouses, and stables attached, which can be let off; splendid opening for pushing young man; would make good Store; valuable recipes, &c., given to purchaser; £250, or could be reduced to suit purchaser. 281/32, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£350.—Very profitable Retail, Dispensing, and Prescribing Business; near London; with several first-class proprietaries; return £650; can be greatly increased; well-fitted shop; excellent stock; unique position; rent £40; good house; large increasing neighbourhood; satisfactory reasons for selling. "Suburban," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

OLD-ESTABLISHED Chemist's Business; best position in country market town; returns about £400, which can be materially increased; good house, &c.; rent £40; to immediate purchaser £150, or valuation; inspection invited. "Chemicus," 15 Lowwood Road, Birkenhead.

CHEMISTS and Grocers.—To be disposed of, a first-class Business, doing a large Grocery trade, combined with a Wholesale Drug and Retail Chemist's Business; excellent connection; van deliveries extend 20 miles, into North Wales and Cheshire; established upwards of 100 years; present proprietor retiring owing to age; stock and fixtures at a valuation. Apply to Wakefield, Enock & Jackson, Chartered Accountants, Chester.

ESTABLISHED 33 years; Retail, Dispensing and Prescribing Business in populous neighbourhood; returns over £600, having doubled in 18 months; splendid house; two gardens; good warehouse, well fitted with every convenience for oil and paint trade; shop well fitted and in first-class condition; heavily stocked; capable still of great increase; grand opportunity; price £500. Eatough, Chemist, Southport.

£250.—Birmingham (near).—Light Retail and Prescribing, returning £300; has done, and can do double; good extractor wanted; long-established; well fitted and stocked; good premises, no garden; owner (ordered South) includes £60 worth Furniture to immediate purchaser; no particulars written; *bonâ-fide* buyers may inspect. "Cornwall," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

PARTNERSHIPS.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

PARTNERSHIP required in a Wholesale Drug or Drysaltery Business. Apply, Attree, Wilson & Attree, Chartered Accountants, 41 Coleman Street, London, E.C.

PARTNERSHIP desired in the Wholesale, with either a London or provincial firm, or Advertiser would entertain developing a manufacturing Business with a capitalist having similar Pharmaceutical and Wholesale experience; the highest references can be exchanged. F. I. C., Messrs. Deacon's Advertising Offices, Leadenhall Street.

APPRENTICESHIPS.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

APPRENTICE.—John Ed. Turner, Chemist, Basingstoke, has a vacancy for a well-educated Youth, outdoors; every facility offered for learning the business thoroughly.

APPRENTICE.—F. H. Bowden, Pharmaceutical Chemist, Buxton, Derbyshire, has a vacancy for a well-educated and gentlemanly youth as indoor Apprentice. Every facility for learning the business in a good-class Dispensing Pharmacy, and solely under the supervision of the proprietor.

SITUATIONS OPEN.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

WANTED, Manager for Branch. Cross & Co., Chemists, Redhill.

WANTED, Junior, about 22; state age, height, salary, enclose carte; also Improver. Allen & Lloyd, Aldershot.

WANTED, an Assistant, used to a Mixed business; a knowledge of Welsh essential. M. Smith, Mill Street, Aberdare.

GOOD Junior wanted at once for Dispensing business; indoors. Apply, A. H. Ellithorne, 8 York Place, Ball's Road, Birkenhead.

WANTED, Junior Assistant, outdoors; must be strictly honest, sober, industrious, and trustworthy. Apply, 509 New Cross Road.

JUNIOR; indoors; abstainer; must be well recommended; state age, height, salary, enclose photo, with full references. James Lees, 76 St. Alban's Road, Watford.

QUALIFIED Assistant; must be well up in Dispensing and thoroughly competent. Full particulars to T. & W. & W. Southall, Bros. & Barclay, Birmingham

TRAVELLER, Town and Home Counties. Apply, stating age, salary required and late employers, to J. D., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SITUATIONS WANTED—Cont.

JUNIOR; disengaged; 19; reference and experience good. Cheetham, Chemist, Louth, Lincs.

MANAGER—view to purchase; country town preferred. Webster, 25 Albert Road, Southsea.

QUALIFIED; 28; good Dispensing and Store experience. "Minor," 28 Grange Road, Canonbury.

LOCUM or Manager; qualified; married; disengaged. J. E. Buck, 109 Stuart Street, Luton, Beds.

PART-TIME; Assistant; disengaged 6 p.m.; counter or stock. "Chemist," 82 Crowndale Road, N.W.

TEMPORARY; aged 26; good West-End experience; references; at liberty. Retallack, 44 Delancey Street, N.W.

WHOLESALE; Forwarding Clerk seeks engagement; highest references. "Salol," 13B Dufferin Street, E.C.

SURGEONS and Chemists.—Part-time or otherwise; qualified; experienced; outdoors. "Chemist," 96 Tunis Road, W.

MANAGER, or Assistant; outdoors; qualified; married; age 25; London or suburbs. R. P., 97 Brookley Rise, Honor Oak Park.

UNQUALIFIED; Extractor; Dispenser; permanency; wages small; disengaged; London preferred. Boulton, 46 North Street, King's Cross.

MANAGER, Assistant, Extractor, successful Prescriber; Stores not objected to; abstainer; good references; 50. X., 17 Stafford Road, Brixton.

ASSISTANT; 26; unqualified; disengaged; experienced; town or South; good references. "Statim," 1 South Crescent, Tottenham Court Road, W.C.

AS Dispenser and Book-keeper; young lady seeks appointment; Apothecaries' Hall certificate. 283/13, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WHOLESALE, any department (or perfumery trade); good experience both; highest references. "Bismuth," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WHOLESALE Qualified Chemist, 28, seeks permanent and responsible position as Traveller, Manager of Department, or otherwise. H. H., Highfield Cottage, Forest Hill, S.E.

LOCUM, Manager or Dispenser to Hospital or Infirmary; qualified; steady; first-class references. Address, "Devon," c/o Messrs. Davy, Yates & Co., 64 Park Street, Southwark, S.E.

JUNIOR (21), 3½ years' experience in good Retail, wants experience in Dispensing; outdoors; time for study; Sheffield or Nottingham preferred. H. C., Walkley Pharmacy, Sheffield.

UNQUALIFIED, aged 26; 9 years' experience; abstainer; Extractor; outdoors; South Wales preferred. W. L., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

DISPENSER; lady desires engagement to Hospital or Dispensary; experienced; good testimonials (Apothecaries' Hall Certificate). F. C. Franklands, West End Lane, West Hampstead, N.W.

DISPENSER; experienced, accurate, quick; 28; tall; gentlemanly address; excellent London reference; disengaged. Address, A. C., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TRAVELLER, gentlemanly, at present working Lancashire, &c., and calling on Chemists, Stores, &c., is desirous of representing good firm of Wholesale Druggists. "Menthol," Office of the CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TRAVELLER.—A gentleman, systematically calling upon Chemists, &c., throughout the kingdom, would be willing to represent another good house on commission and part expenses. Address, "Traveller," 204 Barry Road, East Dulwich, S.E.

A QUALIFIED gentleman having had valuable and exceptional experience, Extractor, good knowledge of surgical appliances, seeks a position of Manager; outdoors; highest references. 20/30, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, a responsible position as Manager, &c.; thoroughly acquainted with all branches of the trade; well up in general Manufacturing and Packing of Proprietary Articles; extensive range of experience; qualified; aged 38; married. "Quercus," 3 Bradford Terrace, Bolton.

A GENTLEMAN, having a good connection amongst Drug-stores, Chemists, and Stores in general, is desirous of obtaining an appointment to represent a Wholesale House; excellent references; good knowledge of Drugs, Packed Goods, Sundries. Address, J. W. D., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MISCELLANEOUS.

Special charges are made for Advertisements under this heading, which can be obtained on application.

BLACK Chloride, Iron Bronze (Chlor schwarz, Eisenbronze), wanted to purchase in large quantities. Address, "G 2433," c/o of Rudolf Mosse, Cologne.

ESPOIR PILLS (E. A. HOPE & CO.) are prepared to Advertise in Chemists' Lists and Almanacks. Send specimen and quote price; also for stitching in Bills. E. A. Hope & Co., 6 Dorset Street, Fleet Street, London, E.C.

ARGENTINE Republic.—Messrs. Tier & Keenan, Wholesale and Retail Chemists, Rosario de Sante Fé, will accept agencies for English goods and preparations; correspondence invited; English and foreign references. Address proposals to W. A. J., c/o Messrs. Evans, Sons & Co., 56 Hanover Street, Liverpool.

LOANS at 2 per Cent. per Annum Interest to tradesmen under 40 years of age, in the second or third year of their business, in the City of London, or within 5 miles thereof; Loans of £100 to £300 granted upon unquestionable sureties being provided. Apply to G. A. Pickering, Clerk of Wilson's Trust, Chamber of London, Guildhall, E.C.

PRELIMINARY AND MINOR.

STUDENTS! Write to-day for a "Guide to Examination," gratis and post free, giving the best advice how to prepare. Knotty Points in Latin Grammar, 1*s.* 6*d.*; Cæsar Simplified, 1*s.*; Metric System Simplified, 1*s.*; How to Write an Essay, 3*d.*; Equations Simplified, 1*s.*; Notes on Dispensing, 1*s.*, post free. Mr. J. Tully (Hills Prizeman), Chemist, Hastings.

SAMUEL RHODES, Deceased.

ALL Persons having any claim against the Estate of Samuel Rhodes, formerly of No. 64 London Road, Carlisle, and late of No. 38 Arthur Street, Penrith, Chemist and Druggist, deceased, are requested to send particulars thereof to me at once; and all persons indebted to the said Estate are requested forthwith to pay their debts to me,

JOHN SEWELL,
Solicitor for the Executor.

14 Bank Street, Carlisle:
November 8, 1894.

PUBLIC APOLOGY.

I, the undersigned, WILLIAM KNIGHT, of Castle Street, Hinckley, Chemist, do hereby express my sincere regret that I should have prepared and sold, under the name of "Seabreeze Saline," which words are embodied in your registered trade mark and are known in connection with the article "Butler's Seabreeze Saline," as prepared by you, a commodity which was not in fact prepared by or obtained from you. And I hereby undertake that I will not in the future prepare, sell, deal in, or otherwise dispose of, under the name of "Seabreeze" or "Seabreeze Saline," any commodity except the article prepared and supplied by you under that name.

I further authorise you to publish the present apology, or any part thereof, in any public prints or otherwise as you may think desirable. I also undertake, in consideration of your refraining from commencing legal proceedings against me in respect of the acts complained of by you, to forthwith pay the sum of £2 2*s.* to the Treasurer of the Children's Hospital, Leicester, for the benefit of that institution, and to pay all legal costs and other expenses incurred by you in relation to the aforesaid matters, and the publication of the present apology.

As witness my hand this 3rd day of November, 1894,

Witness, WILLIAM KNIGHT.
W. A. CLARKE,
of Leicester,
Solicitor.

To Messrs. T. E. BUTLER & SON,
Chemists and Druggists,
Sanvoy Gate, Leicester.

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